



The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

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OCTOBER 25, 1947

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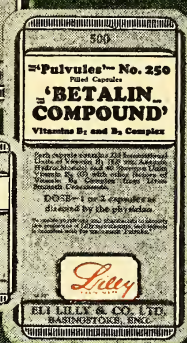
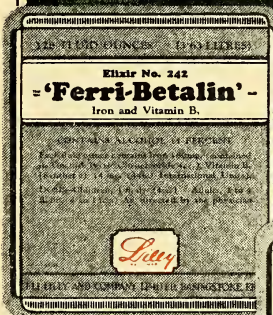
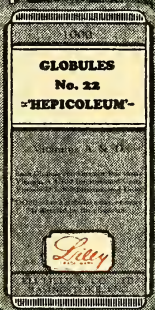
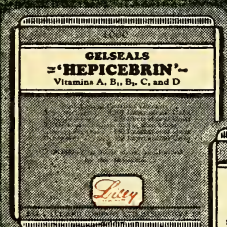
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VITAMIN PRODUCTS

VITAMINS are now considered among the therapeutic specifics. Lilly vitamin products are accurately assayed for vitamin content in accordance with standard methods, and merit the confidence of both doctor and pharmacist.

PATA

ELI LILLY & CO. LTD
BASINGSTOKE
HANTS



*being advertised
again this winter*

Wright's

COAL TAR INHALER AND VAPORIZER

for quick relief from

**COLDS
INFLUENZA
BRONCHITIS
WHOOPIING
COUGH
CATARRH ETC.**

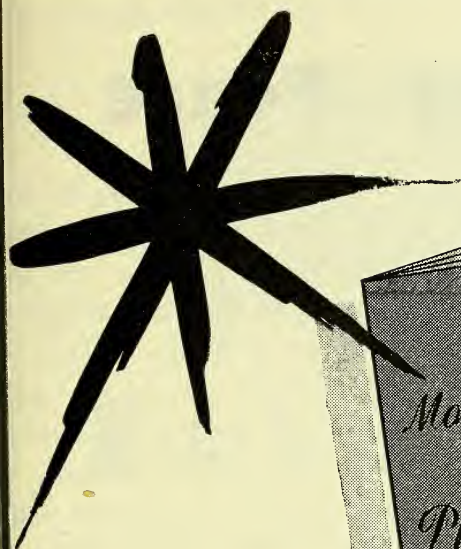


Complete with full size
bottle of Vaporizing Liquid - Retail 6/-
Vaporizing Liquid Refills - - Retail 1/2½
Spare absorbent blocks - Retail 7½d. each

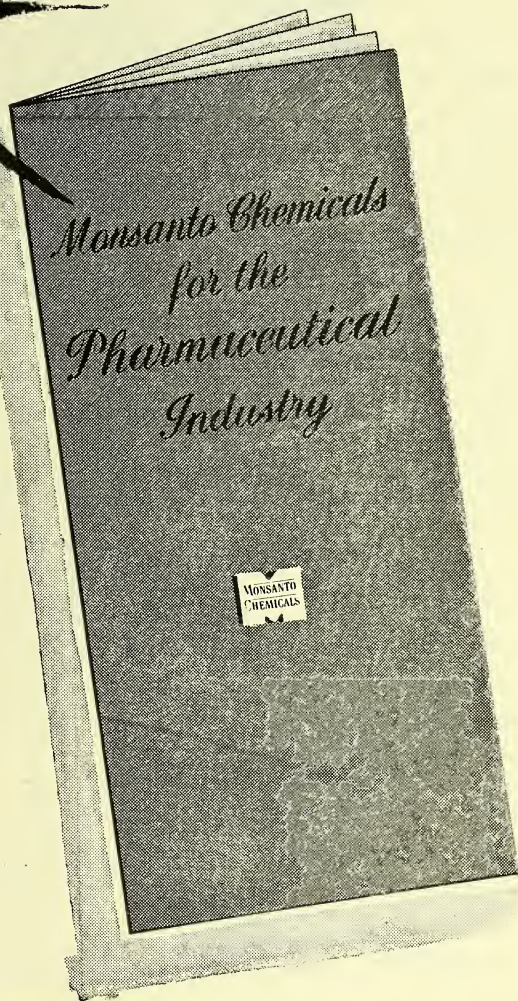
Making a re-appearance in the National Press this Autumn and Winter, publicity for Wright's Coal Tar Inhaler and Vaporizer will help to develop valuable business.

Wright's Coal Tar Inhaler and Vaporizer — eminently suitable for the relief of colds, catarrh, and like congestive conditions — should be well and prominently displayed. It offers good sales returns and terms.

WRIGHT, LAYMAN & UMNEY LTD. SOUTHWARK LONDON S.E.1



Detailed and valuable information — synonyms, physical forms, grades and containers—on Monsanto's complete range of pharmaceuticals is contained in this folder. It has just been published. Write for your copy today . . .
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Victoria Station House,
London, S.W.1.



**MONSANTO
CHEMICALS**

SERVING INDUSTRY WHICH SERVES MANKIND

A

Phoney Peace

We all remember the "phoney" war period. Everybody was a little confused as to where we were heading, what we had to do and what would be the final outcome. Then came Dunkirk. The Nation faced realities—and got down to the job.

History is repeating itself. The "phoney" peace is over. We have now reached the stage when we can take measure of the task before us and roll up our sleeves to tackle it.

We here, at Simpson's, are doing just that. We have a double part to play. On the one hand we are supporting the export drive with all the resources at our command. On the other we shall not be unmindful of the needs of the home market and shall continue to cater for these as far as circumstances permit.

This is the time to keep a steady helm with an optimistic glint in our

eyes, remembering that the life of the community will go on. People will continue to buy the things essential to life and pharmaceutical proprietaries are one of them. Unemployment is practically nonexistent and wage packets are fast. Purchasing power is still high. You will continue to be faced with a larger demand for merchandise than supplies can meet.

But don't over-order; don't panic. Buy normally. Confidence must be the keynote today—confidence in the knowledge that Britain will overcome her difficulties as she always has done—confidence in the knowledge that internal trade is part of the life blood of every community—even an exporting community—and it must be kept going although normal rate of progress may of necessity have to be somewhat less than hitherto. That at all events, is Simpson's present policy.

Announcement by

J. W. SIMPSON (CHEMIST), LTD., IODINE HOUSE, MUSEUM STREET, W.C.

*Order now
for Winter*

K A L S O L A C

for the prevention of chilblains

In those susceptible to chilblains, an immunity can be built up by preventive treatment undertaken before winter's cold and frost occur. Evans Kalsolac gives an easily assimilated combination of the extra calcium, iron and magnesium especially required for this purpose. Kalsolac can be safely given to children, and is also extremely beneficial to expectant and nursing mothers and to all whose calcium intake needs increasing. Each capsule contains 500 units Vitamin D.

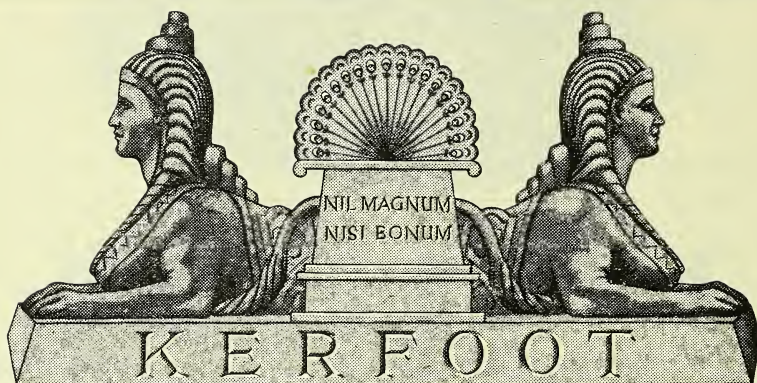
	Retail (including tax)	Wholesale (excluding tax)
Tins of 30	1/11d. each	1/2d. each
Tins of 68	3/6½d.	2/2d. "

Kalsolac is also supplied in bottles of 250,
500 and 1,000 capsules.

EVANS MEDICAL SUPPLIES LTD
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OVERSEAS COMPANIES AND BRANCHES: AUSTRALIA, BRAZIL, CHINA,
EIRE INDIA, MALAYA, PALESTINE SOUTH AFRICA

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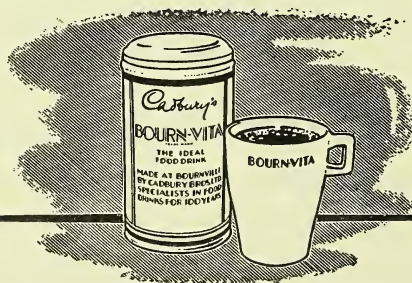


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K33

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SUPPLIES MAY BE OBTAINED
THROUGH YOUR WHOLESALE DRUGGIST



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(continued overleaf)

MYCIL

A new fungicide for athlete's foot

Mycil is issued as an ointment and as a dusting powder. The active constituent is *p*-chlorophenyl α -glycerol ether. Both preparations are highly effective for fungal infections of the feet, particularly athlete's foot, and are also indicated for the relief of

soreness and tenderness resulting from excessive perspiration.

Mycil Ointment and Mycil Dusting Powder provide a combined treatment—the ointment for application to the affected surfaces, the dusting powder to be shaken into socks and shoes.

PRICES

Mycil Ointment . .

Mycil Dusting Powder (sprinkler drums) 1/9

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	TRADE	RETAIL
(Excl. Tax)	(Incl. Tax)	(Incl. Tax)
100%	100%	100%
90%	90%	90%
80%	80%	80%
70%	70%	70%
60%	60%	60%
50%	50%	50%
40%	40%	40%
30%	30%	30%
20%	20%	20%
10%	10%	10%
0%	0%	0%

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THE BRITISH DRUG HOUSES LTD. LONDON N.1

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In cases of RHEUMATIC AILMENTS



Urillac tablets may be recommended with complete confidence. Over a period of 30 years innumerable cases bear witness that Urillac has been found highly efficacious, affording relief surprisingly quickly in severe cases of rheumatism, neuritis, sciatica, lumbago and muscular pain. Public appreciation and recommendation, coupled with a big National advertising campaign, have resulted in ever increasing sales. Get your share by displaying Urillac on counter and in window. New show material is available on request.

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the Stragglers!*

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OUTSIDE
OF YOUR
PARCEL**

Rendells thank chemists in all parts of the country who have sent in stocks of unwrapped Rendells Pessaries for replacement. Response to our appeals has been gratifying, and there can be few if any unwrapped Rendells now on sale. Just in case *you* should have on your shelves any Rendells Pessaries not wrapped in 'Cellophane' cellulose film, please send them to us at once, as the public now expect to buy our product in this modern hygienic wrapping. Replacements and refund of postage by return of post.



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Pack	Retail inc P.T.	Trade doz.	Pur. Tax. doz.
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'ROCHE' NEWS IN BRIEF

Citro-'Thiocol' Cough Syrup

As the seasonal demand for cough preparations approaches pharmacists are reminded that supplies of Citro-'Thiocol' display cards are available on application.

'Becosym' Tablets

Until the standard labels for the new factor Vitamin B-Complex tablets are available will pharmacists please note this product will continue to be issued with the temporary label 'Roche' Vitamin B-Complex Tablets. Each tablet contains Aneurine mg., Riboflavine 2 mg., Nicotinamide 20 mg., Pyridoxine 2 mg., Calcium Pantothenate 3 mg.

Simple Treatment of Migraine

Nineteen migrainous individuals were observed for periods up to two-and-a-half years; of these four were suffering from ophthalmic migraine and the remainder from simple migraine with diverse symptoms. The patients received 5 mg. riboflavine thrice daily for several months after which the dose was varied to suit the individual. The four ophthalmic cases were completely relieved within a few weeks whilst ten others reported cessation of attacks. The remainder showed marked or slight improvement. These results were confirmed in a study of 15 further cases. (Canad. med. Ass. J. 1946, 54, 589.) Riboflavine is obtainable as 'Beflavit' tablets 1 mg. and 3 mg.; also 2 c.c. ampoules containing 10 mg.).

Vitamin E for Dogs and Cats

An interesting report on the satisfactory results obtained from administration of vitamin E to dogs and cats suffering from cardiac disease was published recently. The author gave detailed history of seven cases.

All the animals discussed in this series made a good recovery. So far about 50 cases have been treated with 'Ephynal' vitamin E and practically all of them showed considerable improvement in their cardiac and general condition. The usual dose given in the cases discussed was one 'Ephynal' tablet 3 mg. t.i.d. reduced after 14 to 21 days to one twice daily and finally one tablet daily. In one case, one 10 mg. 'Ephynal' tablet was given twice daily and then once daily for 21 days, an immediate improvement being noted by the owner. (Vet. Record 1947, 59, 355.) ('Ephynal' vitamin E is available in tablets of three strengths, 3 mg., 10 mg., and 20 mg. Also in ampoules for intra-muscular injection each containing 30 mg.).

Rheumatoid Arthritis

The immediate effect of 'Prostigmin' on muscle spasm was investigated in 25 patients suffering from rheumatoid arthritis and associated conditions. Twenty-one patients showed "a decrease of muscular pain, muscle rigidity and pain in movements and an increase of the extent of immobility" whilst under the influence of 'Prostigmin.' The effects lasted up to 14 hours. (Acta. med. scand. 1946, 126, 241.)

'SYNKAVIT'

VITAMIN K ANALOGUE

'Synkavit' vitamin K analogue is water-soluble and can therefore be injected intravenously. Given intramuscularly it is well tolerated and rapidly absorbed.

In ampoules and tablets each 10 mg.

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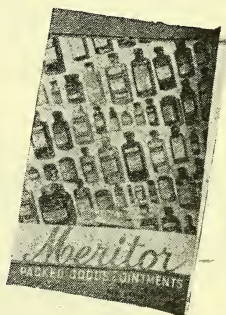
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The makers of 'Curicones'
have received this letter:

Dear Sirs,

I shall be obliged if you will inform me whether your usual offer of large packs of Curicones at 24/- is withdrawn, as on enquiring for one of these yesterday from * I was told the offer was no longer in operation and I could only have the usual single bottle at 5/-.

As I have been a regular user of Curicones for a number of years with beneficial results and have hitherto been able to secure one of the larger packs periodically, about twice a year when my periodical attacks have been recurring, I was surprised at this reply, when I see the actual advertisement of the large pack is still on the single bottle I received yesterday.

I am, yours respectfully,

(The original of the above letter may be inspected at our offices.)

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24/-

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FOR THE RELIEF OF
**RHEUMATISM &
KINDRED TROUBLES**

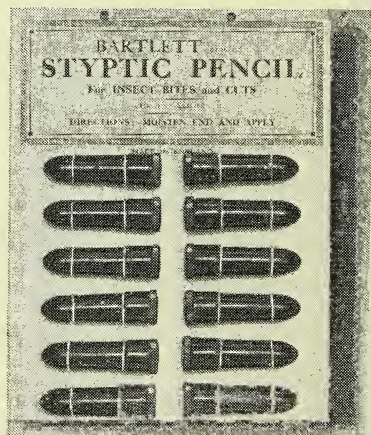
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This unusually palatable elixir combines important factors of the vitamin B-complex with the glycerophosphates of essential minerals.

In these days of unvaried diet and monotonous meals Elixir 'Virvina', besides being an excellent dietary supplement, provides a much-needed stimulus to the jaded appetite and indifferent digestion.

4 oz. Bottles. . .	4/3d.	List	plus 6d.	Purchase Tax.		
16 oz. „ . . .	13/6d.	„	„	1/6d.	„	„
80 oz. „ . . .	60/-d.	„	„	6/8d.	„	„

Subject to 33 $\frac{1}{3}$ % Discount.

In addition to the generous bonus terms available, a special sampling bottle will be enclosed with every order for three dozen bottles.

Informative literature supplied on request.

ELIXIR 'VIRVINA'

TRADE MARK

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Plus $16\frac{2}{3}\%$ Purchase Tax

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VICTORIA BRIDGE - - MANCHESTER, 3

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(phone ILFord 3060:
ext. 88—Trade;
ext. 27—Hospitals)

**LIMITED SUPPLIES OF
'ANTHISAN' ARE NOW
AVAILABLE AS FOLLOWS**

Tablets :
containers of 25 x 0.10 gramme
500 x 0.10 gramme
Ampoules : boxes of 10 x 2 c.c.
500 x 2 c.c.



manufactured by

MAY & BAKER LTD.

distributors

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

If You're out of One Recommend the Other

In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two kinds of Parmint and their three sizes.

All our press advertising features both Parmints and mentions all their prices.

At the moment the 1/5 ready for use Parmint is in short supply. If you are temporarily out of stock, recommend your customers to take a 2/10 bottle or a 3/1½ bottle of the Parmint Concentrated Essences.

Both are both

PATA

and



PARMINT

Concentrated Essences

and

PARMINT



**INTERNATIONAL LABORATORIES
LIMITED**

1-3 SMEDLEY ST., LONDON, S.W.8

StaffAllenS

FOUNDED 1833

WINTER LINES

Ext. Casc. Sagr. Liq.

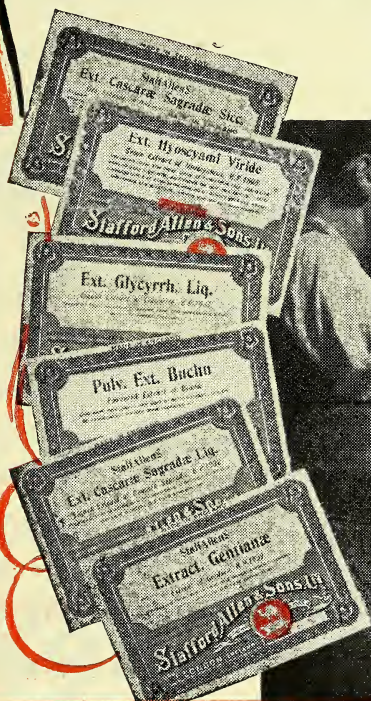
Ext. Ipecac. Liq.

Ext. Glycyrrh. Liq.

Ext. Senega. Liq.

Tinct. Benz. Co.

May we have
your enquiries?



STAFFORD ALLEN & SONS LTD. Wharf Road, London, N. 1. Phone (LErkenwell 1000 (7 lines)



bandbox shampoo

BOOK NOW FOR XMAS... DELIVERY 10-14 DAYS

			Packed in
'Deluxe'	10/6 ea.	70/- doz. Plus P.T.	6's
'Presentation'	7/6 ..	50/- .. " "	6's
'Family'	4/3 ..	28/6 .. " "	12's
'Standard'	2/6 ..	16/6 .. " "	24's
'Small'	10½d. ..	6/- .. " "	36's

ORDER NOW.. FROM YOUR WHOLESALE OR DIRECT

ASHE LABORATORIES LIMITED

120/122, Victoria St. London, S.W.1

Telephone: Victoria 6781

Call and see us when in Town . . . 100 yards from Victoria Stn.

THE

big

NATIONALLY ADVERTISED

EYE LOTION Valopto is always in the public eye . . . month after month, year in, year out. In the great National and Provincial newspapers, on the Underground, in the leading Magazines, Valopto advertising is constantly building up new sales, added goodwill.

SELLING TO A

bigger

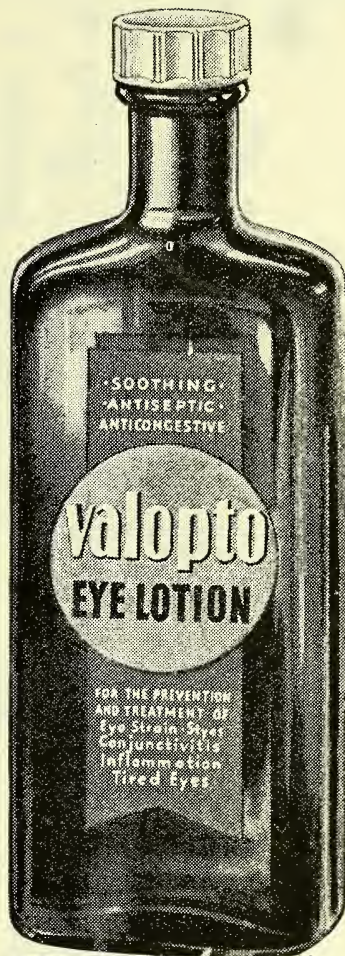
MARKET THAN EVER BEFORE

Valopto advertising reaches out to every member of the community, of all ages and occupations. The demand for this outstanding Eye Lotion is increasing . . . stock up to meet the demand which will be particularly heavy in the months to come. Valopto is

BOOKED FOR THE

biggest

EYE LOTION SALES EVER



Retail Price 2/3 inc. tax.

Wholesale price 16/9, with purchase tax 2/9½ extra.

**DAE HEALTH
LABORATORIES
Limited,**

17, BERNERS STREET,
LONDON, W.1.

+ Stops SCURF

Dr. Page-Barker's Scurf & Dandruff Lotion

If you find any difficulty in obtaining supplies send us the name of your usual Wholesaler and we will do our best to assist you.

Sole Manufacturers and Proprietors—

ILEX SUPPLY CO., LTD. 252b GRAY'S INN ROAD, W.C.1



Trade **18/-** doz.

Plus Tax **ONE SIXTH**

Retail **2/9** **PATA**

50 Years' Test—

has proved the value



of



GET YOUR CUSTOMER TO TRY IT!

Retail price (including tax) **1/8**

(Wholesale terms **12/- doz.** Tax **2/- doz.**)

LOFTHOUSE & SALTMER, LIMITED, HULL



**PREPARED FROM
THE FINEST
SCOTTISH OATS**

*That's why the
public know that a tin
of OATREX is a tin of*
'OATRITION'

Enquiries to **Kings of Kingsbury (Sales), Ltd.**
1, London Bridge, S.E.1.

KING'S PATENT PRE-COOKED OATMEAL

OUR CUSTOMERS KNOW ALL THESE NAMES THAT'S WHY THEY'RE ALL REGULAR SELLERS!



'ANADIN' TABLETS

A compound of pain-relieving and fever-reducing ingredients in tablet form.

'BISURATED' MAGNESIA

A well-balanced combination of antacids for dyspepsia, heartburn, flatulence and stomach acidity.

Bisurated' Magnesia Tablets—An effective relief for all forms of indigestion in easy-to-take tablets.

'BiSoDoL'

Antacid digestant in powder form offering speedy relief. A balanced antacid sedative devoid of costive effect. BiSoDoL Mints are pleasantly flavoured, easily carried tablets for the relief of dyspepsia.

'FREEZONE' PREPARATIONS

Corn Remover—A treatment for the painless and speedy removal of corns and the prompt relief of corn pains.

Corn Rings—These rings are used with 'Freezone' Corn Remover and to allay pressure on a corn.

Foot Compound—An efficient antiseptic powder for the relief of hot, tired, aching and perspiring feet.

KOLYNOS PREPARATIONS

Dental Cream—A highly concentrated scientific dental cream.

Denture Powder—An effective cleanser of dentures which quickly removes stains and banishes odour.

Denture Fixative—The professionally recommended method for keeping false teeth firmly in position.

Liquid Kolynos—A refreshing antiseptic which can be used as a mouth wash and gargle.

'LIMESTONE' PHOSPHATE

A pleasant-flavoured effervescent saline for the removal of impurities from the system.

'PINEATE' HONEY COUGH SYRUP

A pleasant, soothing, bronchial remedy for the relief of coughs caused by inflammation and congestion. Especially suitable for children.

All the above and many other of our well-known preparations can now be included in one composite parcel on the following generous Display Terms:—12½% on orders of £10 and over and 10% on orders of £5 and over. All goods carriage paid home.

INTERNATIONAL CHEMICAL COMPANY LTD

Telephone:
HUScum 8083 (10 lines)

Chenies Street, W.C.1.

Telegrams:
Bolsokemic, Westcent, London.

★ **COMPREHENSIVE STOCKS**
 ★ **OUR AIM - EVERYTHING FOR THE PHARMACY**
 ★ **SPEEDY DELIVERIES**
CHEMISTS ONLY SUPPLIED

HEREFORD WORCESTER
 MONMOUTH CHELTENHAM
 SWINDON GLOUCESTER
 BRISTOL OXFORD
 BATH LONDON
 NEWBURY
 SALISBURY
 SOUTHAMPTON
 SOUTHSEA
 WYOMOUTH
 YEovil
 TAUNTON
 EXETER
 BARNSTAPLE
 PAIGNTON
 PLYMOUTH
 LANDS END
 SCILLY IS
 CHANNEL ISLANDS

J.R.Gibbs Ltd.
 MANOR AVENUE · PAIGNTON · S. DEVON
 TELEPHONE: PAIGNTON 82282 (3 LINES)

'ENDRINE'

BRAND REGD.
 NASAL COMPOUND

14 to the dozen terms

are offered on all orders of $\frac{1}{4}$ gross upwards for "Endrine" Nasal Compound received during November, in return for fourteen days' display of our attractive showcard. Take advantage of the coming season of head colds by placing your order now — either direct or through your usual wholesaler.

JOHN WYETH & BROTHER LIMITED
 CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.1

SURE-SELLING STOCK!
 OVER 150 YEARS REPUTATION
KEARSLEY'S
 THE ORIGINAL
WIDOW WELCH'S FEMALE PILLS
 9d. BOX PROFIT by ordering 1 dozen 3/- size. Bonus box given on every dozen (13). It pays to push this size.
C. & G. KEARSLEY LTD
 71 Dartmouth Rd., London, S.E.2
 Est. 1787 in the Reign of King George III

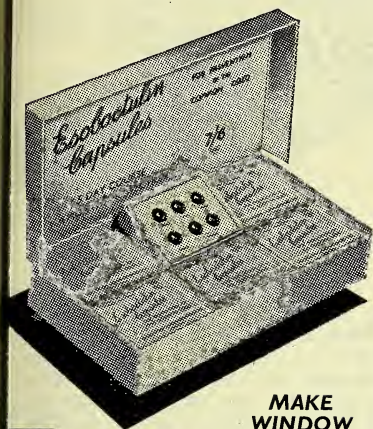
D.C.L. VITAMIN B₁ YEAST TABLETS

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1.4 mgm. of Riboflavin, and 8 mgm. Nicotinic Acid. Each tablet contains 100 I.U. (approx.) Vitamin B₁.
 100 TABLETS 3/9d. 50 TABLETS 2/3d.

MANUFACTURED BY
 THE DISTILLERS' CO. LTD., EDINBURGH.



Our advertising will bring you



MAKE
WINDOW
DISPLAYS
NOW!

PRESTIGE AND PROFITS

Customers will thank you for recommending ESoBACTULIN—6 Capsules taken over 5 days give most people 3 months' immunity from Colds.

GOOD PROFITS — 33 1/3% DISCOUNT

plus special bonus of 13 to the dozen

Now being advertised to millions of potential customers

Supplied through all C.F. Wholesalers

ESOBACTULIN
PROTECTION AGAINST COLDS

COMPLETE COURSE 7/6 INC. TAX

A Product of

ROUTHON LABORATORIES LTD.

Upper Richmond Road, London, S.W.15.

CRILLS

(POLYOL - ESTERS)

NON-IONIC SURFACE ACTIVE AGENTS

Many industrial processes hitherto regarded as impossible are now commercial actualities through the use of Surface Active Agents, of which Crills are an outstanding example. Crills range from Water-in-oil to Oil-in-water Emulsifiers and include Detergents, Solubilizers and Wetting Agents, which are assisting new and increased production in many spheres. Space prohibits fuller details, but samples and technical literature are available to enquirers.

EXPORT. Crills can only be supplied to firms in the U.K. for use in products intended solely for export. The procedure is quite simple, and details will be sent to all firms able to give this undertaking.

CRODA LIMITED

Administrative Office :

**CRODA HOUSE, SNAITH,
GOOLE, YORKS**

Telephone : SNAITH 77 (3 lines)

Telegrams : CRODA, GOOLE

London Office :

BEDFORD CHAMBERS,
ST. JAMES'S PLACE, W.C.2

Tel : TEMPLE BAR 2063

Manchester Office :

74 CORPORATION STREET
MANCHESTER, 4

Tel : BLACKFRIARS 801



Eade's PILLS

Eade's Rheumatic and Gout Pills, the remedy with a 100 year old fame.

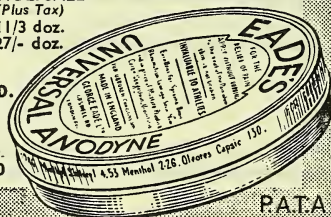
RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/5	11/3 doz.
3/4	27/- doz.
5/8	46/- doz.

Eade's UNIVERSAL ANODYNE

Another Eade's product always in demand.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/5	11/3 doz.
3/4	27/- doz.

EADE'S PILLS LTD.
(Dept. C. & D),
232 Goswell Rd.,
LONDON, E.C.1.
Clerkenwell 3370



PATA



The
Warehouses
of Cresswell Brothers and Marks.

We have warehouses at Egina, Greece, and are represented at all major centres of the Sponge Industry throughout the world. Let us record your name for earliest possible delivery of "RELIANCE" SPONGES & CHAMOIS LEATHERS.

CRESSWELL BROS. AND MARKS

(INTERNATIONAL SPONGE IMPORTERS, LTD.)

5A, BUCK STREET, CAMDEN TOWN, N.W.1

PHONE GULIVER 5462-3. GRAMS SPONGE, NORTHWEST LONDON

Acute Gastro - Intestinal
Infections

DIMOL SYRUP

for

RAPID ACTION

PRICE	Minimum Retail Price	Tax Each	Minimum Wholesale Price
4 oz.	3/6	5d.	29/5 doz.
16 oz.	12/-	1/5	100/10 ,,

Whatever the Gastro - Intestinal
condition DIMOL is indicated

Distributing Agents

THE ANGLO-FRENCH DRUG CO., LTD.,
11-12, Guilford Street, London, W.C.1.

Telegrams: "Ampsalyas London."
Telephone: HOLborn 6011.

Dimol Laboratories, Ltd.,
34/40, Ludgate Hill, London, E.C.4.

GROUND DRIED YEAST

MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

HARRINGTONS Brand ASPIRINS

7½ & 5 grain Packed 10's to 1,000's
HOME AND EXPORT
London Office: 2 BERRIDGE Grn., EDGWARE, LONDON

DR. NIBLETT'S VITAL RENEWER NERVE SEDATIVE

TRADE TERMS—33½% to Chemists or
through your Wholesaler.

Retail Price 5/- per bottle, including tax.
Prepared by C. P. NIBLETT Est. 1870

10, Lichfield Terrace
RICHMOND, SURREY. Phone: RIC 3221

PENICILLIN PREPARATIONS

Official, Non-Official and N.W.F.
Manufactured under T.S.A. Licence No. 174

- INJECTIONS - - -
- - - CREAMS
- CREAM BASE - - -
- - - LOZENGES
- PRAYS - - -
- - - OCCULENTUM

Penicillin with Sterilised Sulphathiazole, etc.
Aqueous and Oily injections supplied within
a radius of 25 miles. Full particulars on request.

Also manufacturers of Surgical Ligatures and
Sutures under T.S.A. Licence No. 40.

CUXSON, GERRARD
& CO., LTD.
OLDBURY, BIRMINGHAM

Fortifies Food...

A little VIRDOX sprinkled over food or
beverages adds valuable yeast vitamins
to the ordinary diet. Recommended to
correct malnutrition, digestive troubles,
asthenia, anæmia and "nerviness." Retail
price at 3/6 per 8 oz. tin, VIRDOX is a
profitable line for all Chemists.

*Write today for full details
of generous Trade Terms.*

Home and Overseas Agents required.

VIRDOX
REGD.
nutrition

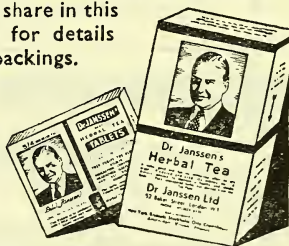
VIRDOX, 75, KINGSWAY, LONDON, W.C.2

Dr. JANSSEN'S BRAND TEA & TABLETS



These tonic remedies for figure
fitness are in greater demand
than ever. National advertising
stimulates this demand and makes them
ready sellers. Supplies are readily available.
If you want to share in this
demand write for details
of prices and packings.

● Wholesale dis-
tributing agents
are wanted in
most areas
throughout the
country.



Dr. JANSSEN LTD
52, BAKER ST. LONDON. W.1.



In bottles, popular size
9/6 per dozen plus 100% P.T.
Retail—2/- inc. Tax.

With short supplies and restricted trading we assure the trade we are doing our best to distribute Nufix as fairly as we possibly can under existing difficult circumstances.

WALDEN & CO (NUFIX) LTD LONDON NW9

MANUFACTURERS OF HIGH CLASS TOILET PREPARATIONS

DON BRYAN LTD.

Wholesale Chemists & Druggists
176/177 HIGH STREET, SWANSEA
Serving
SOUTH, WEST, and MID-WALES
Supplying
CHEMISTS ONLY

WHOLESALE AND EXPORT

SHAVING BRUSHES OF QUALITY

Manufactured by

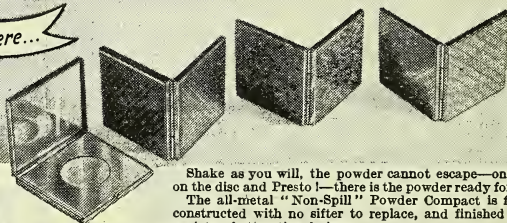
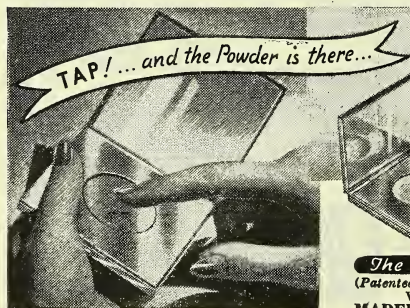
"GUARANTEED BRUSHES"

12/13 WHITECROSS PLACE, WILSON STREET,
LONDON, E.C.2. Telephone: BIS 8277

FRANCO-BRITISH ELECTRICAL CO. LTD

For Ampoules & Vials.

**FIRTH STREET GLASSWORKS
LEEDS 9**



Shake as you will, the powder cannot escape—one tap on the disc and Presto!—there is the powder ready for use. The all-metal "Non-Spill" Powder Compact is finely constructed with no sifter to replace, and finished in a variety of attractive designs.

The "NON-SPILL" Modern Powder Compact

(Patented)

Telephone: Blackfriars 0177/8

(British Made)

Wholesale, Retail and Export enquiries to Sole Distributors:

MADELOX LTD. (Dept. A), 168 Corporation St., Manchester, 4

regd.
Marigold
 PURE LATEX
 CHERRY
 OR PLAIN
BOTTLE TEATS
 VALVES AND
 CUSHION
 COMFORTERS
 CELLOPHANE
 PACKED



J. ALLEN AND COMPANY
 BATH ROAD - CHELTENHAM

SEPTISOL'

for Diaper Rash

**NURSERY
 OINTMENT**



SEPTISOL'

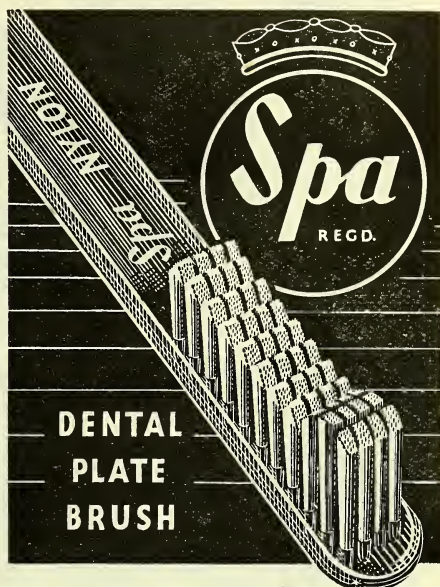
for Better Baby Bathing

**BABY
 SOAP**



Give Profit and Prestige, and ensure Repeat Demand
 Constant Advertising makes every Mother Familiar
 with these Products

'SEPTISOL' LIMITED
 28 KENNEDY ST.
 MANCHESTER 2.



**DENTAL
 PLATE
 BRUSH**

*designed specially
 for the job*

A Dental Plate Brush has a double job to do—it must clean every part of the plate as well as the dentures. No ordinary brush—and no adapted tooth-brush—can do this.

The SPA Dental Plate Brush has been specially designed for its particular job. The handle is correctly shaped. The bristles are of the right hardness, length and spacing.

The price is right. The PROFIT is right. It's a P.A.T.A. line. And it's a quick seller.



**Supplies
 now
 available**

John Freeman & Co. Ltd.,
 Spa Brush Works, Chesham, Bucks.

MONTON LANE WORKS,

ECCLES, LANCASHIRE



CARVANSONS
LTD.

*Perfumery Essences
of distinction*
FOR SOAP COSMETIC AND
PERFUME MANUFACTURERS

P.A.S.

**Getting a QUART
into a PINT Pot
is easy . . .**

compared with
the difficulties we are experiencing in pro-
duction under the present restrictions.

Distribution is, conversely, rather like
getting a pint evenly distributed into
hundreds of gallon pots.

We ask all our customers to rest assured
that our supplies are being distributed on
the most equitable basis possible—that we
look forward as much as they do to the
time when the quota system may be
discarded.

EVAN WILLIAMS CO. LTD.,
Aintree Road, Perivale, Greenford, Middx.

West End Showrooms and Advice Service :
102 New Bond Street, London, W.1

Tessa
**LIPSTICKS
and REFILLS**



*Cosmetized from our
exclusive American
Formula into the
Season's latest
shades*

★ YOU ARE SUPPORTED BY EXTENSIVE
ADVERTISING ★

Send for Shade Card and
details of Trade terms.

J. DUNHILL MANUFACTURING CO.
17 WOODSTOCK STREET, LONDON, W.1
TELEPHONE : MAYFAIR 1603



PERFUME • VANISHING CREAM • LIPSTICK • ROUGE • TOILET SOAP • POWDER

NOTE: This is one of a series of Bourjois advertisements appearing in the national magazines and national dailies to keep the public informed about Bourjois.

Helena puffs



HYGIENIC,
WASHABLE,
NON-FADING.

Sixty designs, each
individually wrap-
ped. The finest
range and nation-
ally advertised.

Write for Price List.

HELENA PRODUCTS
NEW SOUTHGATE, N.11

*(113

*A quick-selling line
for your counter!*



Attractive display boxes, each
containing 1 dozen assorted Chypre,
Muguet, Origan, Nardisse, Violette
and Lilas. In quality bottles with
Bakelite caps and rubber plugs.
Retail 2/6 and 3/9 including P. Tax.
No. 781 (1 Dram size) Illus. 12/- Doz.
No. 783 (2 Dram size) 18/- Doz.
Flat square bottles

Plus Purchase Tax 100%
Carriage Paid, Packing Free.

Please order early to ensure prompt delivery
dellwood limited

ST. ANDREW'S ROAD, LONDON E.17

MARKSMAN



Sponges

MARKSMAN BRAND for satisfaction.
Early delivery can be given.

Leslie Marks & Company Ltd.

Importers and Exporters of Fine Sponges,
Chamois Leather Dressers.

**7 & 9 EARLHAM ST., CAMBRIDGE CIRCUS
LONDON, W.C.2.** Temple Bar 6135/6



Potter's Pharmaceutical Soaps and Germicides



SAPO MOLLIS B.P. VIRID. SAPO MOLLIS B.P.
SAPO MOLLIS COMMERCIAL

TYRO-LOL GERMICIDE
Three times stronger than Carbolic Acid.
Non-poisonous and non-irritating

Particulars and Prices of these and similar preparations
on request

POTTER & CLARKE L^{TD}

60-64 Artillery Lane, LONDON, E.I.

Telephone: BISHopsgate 4761

and

77 Dantzic Street, MANCHESTER 4.

Telephone: BLAckfriars 8734

SWANDOWN



*Beauty Film
Make-up*

Cash in with this new-come to the famous Swandown range. It's selling as fast as women can make up! Retailing at 5/10, inc. tax, in the following shades: Rachel, Naturelle, Peach, Rose-Indian, Summer-Tan. Order from your wholesaler or direct from:

HENRY TETLOW CO. LTD.,
Beresford Avenue, Wembley, Middx.

THE FINEST VALUE IN THE WORLD

GLEIM SHAMPOO

IN

"PENNY PACKETS"

(U)

GLEIM SHAMPOO COMPANY—NEWBURY

*Dental Sticks
are specially
made for
massaging the
gums — They
are not Tooth-
sticks —*

Dental Sticks are manufactured from various types of specially selected soft and hard woods and also from whalebones, and are intended entirely for massaging the gums between the teeth.

BRITISH DENTAL STICKS LIMITED
NEWCASTLE-ON-TYNE 4



PRITCHARD'S TEETHING POWDERS

(APERIENT)

PRITCHARD'S COOLING POWDERS

(NON-APERIENT)



1/3 (20 Powders). 6/- (96 Powders) Inc. Tax.
The 6/- Size Sold at 1d. each—Good Profit.

Fritchard's Ltd., Cheadle, Cheshire, Eng.

TABLET TUBES

HOME & EXPORT BUYERS SUPPLIED

ENQUIRIES TO
GLASS CONTAINER CO.
21 HAYES LANE · KENLEY · SURREY
Telephone: UPLANDS 8119
Works: 25-27 MERSEY STREET · LIVERPOOL 1



COMPELLING ADVERTISING

WITH A TOPICAL THEME KEEPS

'KEPLER' in the news!

The vigour of this advertising can hardly fail to stir the imagination of mothers—especially at this time, when they are more than ever conscious of the need of the right 'food extras' for their children. They can read the KEPLER message in the national press, the best provincial papers, the big-circulation journals and the women's magazines. Also in *your shop* if you display the new KEPLER window- and counter-cards. Ask our representative about them—they have a compelling attractiveness that leads to sales on the spot.



There's food as well as vitamins in
'KEPLER'

**'KEPLER' BRAND
COD LIVER OIL
WITH MALT EXTRACT**
In two sizes 3/3 and 5/9

**MORE
GOODNESS
TO THE
SPOONFUL**

In these days growing children depend upon getting the right food extras. After seventy years 'Kepler' is still the finest "food extra" you can buy—so start the children, on 'Kepler' as soon as you can. They all love its sweet, malty flavour. Your chemist has 'Kepler'.

A BURROUGHS WELLCOME & CO. PRODUCT

Two sizes 3/3 and 5/9



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.)
12, Red Lion Square, London, W.C.1. Telephone: Chancery 6621

(T. 49a)



"Dr. JENNER'S ABSORBENT LOZENGES"

TRADE MARK BRAND

Digestive Tablets

The proved specific for digestive disorders is "Dr. Jenner's Absorbent Lozenges." Discovered 150 years ago by the great pioneer of vaccination, this is one of the very few proprietary medicines regularly prescribed by General Practitioners and by Specialists.

"MEDILAX"

TRADE MARK BRAND

Laxative Pellets

Meeting the need for something more persuasive than ordinary laxatives. "Medilax" is imperative without being discomforting and, unlike drastic purgatives, does not induce a subsequent state of constipation which is often more acute than the first.

"MORYL"

TRADE MARK BRAND

Carbachol

Powerful parasympathetic stimulant.

"TETRONOX"

TRADE MARK BRAND

Tablets

Reliable, hypnotic and sedative.

MARTINDALE

"E-S-T-P"

TRADE MARK BRAND

Ether-Soluble Tar Paste

An advance in coal tar therapy. Of particular value in eczema of all forms.

MARTINDALE

"STERULES"

TRADE MARK BRAND

Wide range of products for injection.

SQUIBB

"QUINOLOR"

TRADE MARK BRAND

Compound Ointment

Tissue-repair promoting Antiseptic.

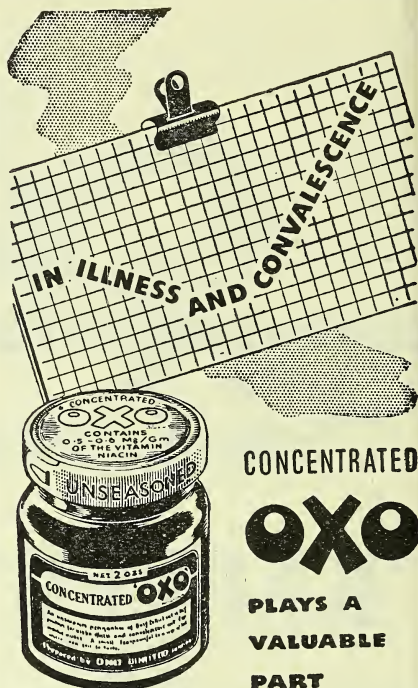
Full details on request to :—

Savory & Moore, Ltd.

Chemists to The King

Lawrence Road, Tottenham, N.15
or Wm. Martindale, 50, Wigmore St., W.1

PATA



Concentrated OXO
has a high content
of the important
vitamin Niacin.

Patients wel-
come its deli-
cate flavour
and react
favourably to

the energising effects of this
highly concentrated prepara-
tion of Beef Extract and Beef
Protein.

Economical, and quickly
prepared as a beverage, con-
centrated OXO is also re-
commended for invalid cooking

Supplied by Chemists.



The CHEMIST AND DRUGGIST

For RETAILER — WHOLESALER — MANUFACTURER

Published weekly at 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "CHEMICUS, ESTRAND LONDON."

Telephone: CENTRAL 6565 (10 lines)

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NEWS OF THE WEEK

Commercial Petrol Allowances. — The Minister of Fuel and Power has announced that petrol issued to shopkeepers for commercial purposes may not be used for travelling to meetings of trade associations.

Heating Restrictions Relaxed. — The prohibition on the use of fuel for heating industrial premises, factories, workshops, shops, offices, etc., has been raised by the Minister of Fuel and Power, with effect from midnight on October 19.

Executive Councils' Organisation. — Executive Councils have been invited to send representatives to a meeting, to be held under the auspices of the National Association of Insurance Committees in London on October 31, at which will be discussed a proposal to set up a national association of Executive Councils.

Trade of Retail Chemists. — Sales of independent retail chemists in August were unchanged when compared with the previous month. Compared with a year ago, sales were 16 per cent. higher in August and 10 per cent. higher in the period February-August.

Blackcurrant Syrup and Puree. — The Minister of Food, in co-operation with the manufacturers and the National Pharmaceutical Union, has again arranged to provide blackcurrant syrup and puree for sale through retail chemists to children up to the age of eighteen (holding green ration book, R.B.2, or blue ration book, R.B.4), and to invalids and persons in need of additional vitamin C.

"Know - how" in Exchange for Dollars. — At a Press conference on October 16, Lieutenant-Colonel H. A. P. Disney (Director of Administration, British Export Trade Research Organisation), outlined a scheme by which the organisation was prepared to help negotiate British "know-hows" in return for royalties in dollars, and answered criticisms that had been levelled against the scheme both in this country and in America. Comment, p. 510.

Scholarships for Industrial Nurses. — An Industrial Nursing Scholarship scheme sponsored by the Ministry of Labour and National Service, details of which have been made known, will enable nurses on the State Register to train for the further

qualification of the Industrial Nursing Certificate. Entrants for the course must be not less than twenty-four years of age and must undertake to engage in industrial nursing for at least twelve months after completing the course. Training, which has been planned by the Royal College of Nursing and by certain Universities, will occupy approximately six months; part of it will be undergone in factories. The subjects include first aid in industry; industrial diseases and poisonings; prevention of dermatitis; care of young and inexperienced workers; elements of industrial hygiene; influence of dust, fumes, gases; ventilation; heating and lighting; medical supervision in industry; the law upon which minimum standards are based; and an outline of Government organisations having a bearing on industrial health. Financial assistance given by the Ministry covers training and examination fees and extends to a possible maximum allowance of £100.

LOCAL NEWS

West Bromwich Doctors' Rota. — Twenty doctors in West Bromwich have arranged a rota scheme under which responsibility for calls at weekends is undertaken in turn.

London Works Explosion. — A violent explosion, caused by the ignition of accumulated benzene vapour, occurred at the East London works of A. Boake, Roberts & Co., Ltd., on October 17, and resulted in the deaths of three operatives. The explosion was followed by a fire which was extinguished after two hours' effort. Serious

damage was confined to the plant in which the actual explosion and fire took place. Other plants in the vicinity are expected to be in operation again shortly, and loss of output should be limited.

Chester Laboratory Fire. — In a fire which occurred in the laboratories of the Arthol Manufacturing Co., Ltd., Seala Road, Chester, on October 1, several members of the staff were injured and considerable damage was done to parts of the plant and machinery.

Peterborough Officers. — At the annual meeting of the Peterborough Chemists' Association on October 15, the following officers were elected: *President*, Mr. Wright; *Vice-president*, Mr. G. Lloy Jones; *Treasurer*, Mr. C. Lenton; *Secretary*, Mr. Frank White, 16 Westgate, Peterborough.

Stoke Chemists' Hours. — Stoke-on-Trent Insurance Committee recently considered a suggestion from three local chemists to institute 6 p.m. closing of chemists' shops, with a rota service until 7 p.m. After a letter, opposing the change had been read from the local Pharmaceutical Committee, the suggestion was rejected.

Debate on Proprietary Medicines. — At a meeting of the East Metropolitan Branch of the Pharmaceutical Society, held at Stratford on October 21, a debate on the advertising of proprietary medicines took place between Mr. W. K. Fitch and Mr. Arthur Mortimer. At the request of Mr. Fitch, Mr. S. Clifford Jones (chairman) ruled that the meeting should be conducted as a private one.

Walthamstow Dairy Visit. — Members of the Walthamstow Pharmaceutical Association visited Hitchmans Dairies, Ltd., London, E.4, on October 2, to witness the process of preparing pasteurised milk which the company is understood to have been the first to supply at the price of ordinary raw milk. The dairy is claimed to be the finest in Europe. The visitors were shown a British stainless-steel plant capable of pasteurising 2,500 gall. hourly, and high-speed machinery for sterilising and sealing bottles.

Sheffield Salary Discussion. — At the annual meeting of the Sheffield Branch of the National Pharmaceutical Union, held recently, a report on a conference of representatives of Pharmaceutical Committees, held in London on July 17 (see *C. & D.*



Firemen at work in the wreckage after an explosion at the Stratford, London, E.15, works of A. Boake, Roberts & Co., Ltd., on October 17.

July 26, p. 116) was given by Mr. C. W. Hobson. A discussion then took place on the wage scales of the National Joint Industrial Council for Retail Pharmacy and on the question of equal pay for men and women. The following officers were elected: *Chairman*, Mr. R. Blackburn; *Vice-chairman*, Mr. W. Wood; *Secretary*, Mr. S. De Vall, 51 Louth Road, Sheffield, 11.

Blackpool Junior Section.—The junior section of the Blackpool Branch of the Pharmaceutical Society is planning a children's Christmas party. Members should send the names of children who wish to attend to Miss L. I. Anderson, Corbiere, Normoss Road, Newton, Blackpool. Members of the section held a dance on October 8 at which Mr. J. Holmes was M.C. During the evening Mr. J. Walker (president) presented Mr. R. Stuttard (vice-president) and Mrs. Stuttard with an electric clock as a wedding present from the Section.

Bristol Poisonous Plants Lecture.—In a lecture on poisonous plants given at a meeting of the Bristol Branch of the Pharmaceutical Society on October 9, Miss Beer, B.Sc. (Merchant Venturers' Technical College), illustrated by means of specimens and diagrams the large number of plants with poisonous constituents which grow in the neighbourhood of Bristol. The naming of berries swallowed by children, she said, was a regular task of casualty officers and others; they usually proved to be the fruits of one of the bryonies, not of the dreaded belladonna, and the effects were distressing but not fatal. The lecture was well attended, especially by the younger members of the Branch.

Harrow Child Welfare Discussion.—At a meeting of the Harrow Branch of the Pharmaceutical Society on October 7, Miss A. M. Woods, S.R.N. (health visitor for West Harrow) spoke on child welfare and maternity services. After discussing the historical background from the time of the cholera epidemic of 1831, Miss Woods described the existing services and emphasised the importance of the new National Health Service. With the help of the voluntary organisations, she said, valuable assistance could be given to those for whom the existing machinery did not provide. Close links had often been established between local pharmacists and such organisations; co-operation should be developed in the interests of mother and child.

IRISH NEWS

Dublin Fire.—In a recent fire the Dublin premises of Potter & Clarke, Ltd., were completely destroyed. The company is notifying customers of arrangements made to maintain supplies.

Golf Society's Coming of Age.—The coming of age of the Irish Chemists' Golfing Society was celebrated at a dinner in Dublin on October 8, presided over by Mr. Phil McAuliffe (captain), and attended by chemist golfers from many parts of Eire. The Ulster Chemists' Golfing Association was represented by Messrs. Ernest Allen (captain) and W. H. Boyd (secretary). To mark the occasion a special prize was donated by Mr. J. K. Whelehan (president of the Pharmaceutical Society of Ireland). Prizes were presented to the following: Messrs. Con Collis (president's trophy), Louis Cashman, John Fitzgibbon, B. R. Smith, Jack Mason, William Mullen and M. Flynn.

Ulster Chemists' Association.—Mr. Robert Gibson (president) was in the chair at a meeting of the Executive Committee of the Ulster Chemists' Association held in Belfast on October 7. Sympathy was expressed with Mr. Caldwell on the recent death of his father, and with the relatives of the late Mr. J. A. Patton, a former member of the Association. It was agreed that a reminder should be sent out, with the October price alteration sheet, to members who had not signed and returned their copies of the Chemists' Federation retailers' agreement. A letter from the Ministry of Health regretted that no action could yet be taken to implement recommendations for amendments to the Shop Act, made by the Association on April 26. On the proposal of Mr. McGregor, seconded by Mr. Acheson, the following were elected to membership:—Mr. J. B. Loughery, Ph.C., White-well, Belfast; Miss Rhoda Dawson, Ph.C. (successor to W. J. Henning & Co., Ltd., Larne) and Mr. H. L. Wallace, Ph.C., Newtownards. The following, who had already been approved by the Associates' Committee, were elected to associate membership: Mrs. E. P. Hutchinson and Mr. I. E. Hobson (pharmaceutical chemists); Messrs. J. E. Calderwood, P. J. Corrigan, H. Hill, A. Gillan, J. I. Kearney, J. B. Marshall, R. G. McGlaughlin and A. J. Stumpf (assistants); the Misses E. L. Rea, M. Stewart, N. F. Lytle and B. Campbell, and Mr. William Mitchell (apprentices).

COMPANY NEWS

CZECHOSLOVAK CHEMICAL WORKS (LONDON), LTD. (P.C.).—Capital £10,000. First directors are to be appointed. Solicitors: Pritchard Englefield & Co., London, E.C.4.

CHAPMAN'S FOOD CO., LTD. (P.C.).—Capital £10,000. To carry on business of manufacturers of and dealers in infants' foods, invalid diets, cereals, bread, etc. Thomas S. Coast and Peter A. E. Devine, directors. R.O.: The Bull Hotel, Oxford Road, Gerrards Cross.

SHIELDS & WARREN, LTD. (P.C.).—Capital £10,000. To carry on the business of wholesale, retail and manufacturing chemists, druggists, etc. Pierce H. Warren, M.P.S., Pierce D. Warren and Donald C. Warren, directors. R.O.: 7 London Road, St. Albans, Herts.

A. NELSON COLE, LTD. (P.C.).—Registered in Dublin. Capital £2,000. To acquire the business of a pharmaceutical chemist and druggist carried on by Alexander Nelson Cole as "Coles' Rexall Pharmacy" in Youghal, co.Cork. A. Nelson Cole, M.P.S.I., John D. Blair, M.P.S.I., and Richard D. Clarke, M.P.S.I., directors.

TRENTHAM MANUFACTURING CO., LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in fine chemicals, pharmaceutical, heavy and industrial chemicals, etc. The first directors are to be appointed by the subscribers. Subscriber's address: 6 May Avenue, Wollaton, Nottingham.

MARITIME PRODUCTS (GRIMSBY), LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturing chemists, etc. J. J. Amos, W. H. Amos, T. E. Chilton, A. E. Fisher, C. P. Drury, K. R. Drury, B. H. Petch, J. S. Petch and H. F. Petch, directors. R.O.: 74 New Pontoon, Fish Docks, Grimsby.

SWIFT CHEMICAL CO., LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in soap, perfumes and cosmetics, manufacturing, pharmaceutical and general chemists, etc. Thomas J. Swift and Kenneth J. Beadle, directors. R.O.: 20-21 Lawrence Lane, Cheapside, London, E.C.2.

ROURE & BERTRAND FILS & JUSTIN DUPONT, LTD. (P.C.).—Capital £10,000. To carry on the business of manufacturers, distillers, importers and exporters of and dealers in perfumes, oils, essences, synthetic preparations, perfumery, etc. Louis Amic, Francois Amic, Jean Fabre and Arnold W. Munns, directors. R.O.: 63 Lincoln's Inn Fields, London, W.C.2.

CRESTON INDUSTRIES, LTD. (P.C.).—Registered in Dublin. Capital £5,000. To acquire the business of wholesale and general manufacturers of medicinal, chemical and pharmaceutical preparations now carried on by Michael T. McGourty,

M.P.S.I., and Patrick G. Byrne, M.P.S.I., who are directors of the company, at 98 Bridge Street, Dundalk, Eire.

THE BRITISH DRUG HOUSES, LTD.—Mr. Geoffrey C. R. Eley, a director, has been appointed deputy chairman of the company.

F. H. STEELE & Co., LTD., Dublin.—Due to a news agency error the name of the managing director given in our report (*C. & D.*, September 20, p. 332) was incorrect. The managing director is Mr. F. H. Steele.

THE DISTILLERS CO., LTD.—At the annual meeting of the company held recently, MR. H. J. ROSS, the deputy chairman, said new plants for subsidiary companies are in course of erection to produce a range of synthetic resins, adhesives, moulding powders, and compounds. The cost of these extensions also will approach £2,000,000. Agreement has been reached recently with the Government for the purchase of the penicillin factory at Speke which was erected and operated by the company as agents for the Ministry of Supply. The demand for this remarkable drug is still increasing, and the board consider that this acquisition will fit in logically and effectively with the company's research and development work in the production of streptomycin and in the field of antibiotics generally. This new development will be operated through a subsidiary to be formed with a capital of about £1,000,000.

BUSINESS CHANGES

NUNEATON CO-OPERATIVE SOCIETY, LTD., have opened a pharmacy branch at 2 The Square, Attleborough, Nuneaton.

MERZ & Co., LTD., are removing on November 1 to 1 Bloomsbury Street, London, W.C.2 (Telephone: Museum 2710).

THE REGISTERED PHARMACISTS' UNION has been registered as a trade union in England, Scotland, Wales and Northern Ireland.

HALSTEAD, WOODWARD & Co., LTD., Lutterworth Road, Burbage, Hinckley, Leics, have taken over the manufacturing and wholesale sections of the business of Halsteads (Chemists), Ltd. The retail section of the business at 81 Castle Street, Hinckley, is being continued by Halsteads (Chemists), Ltd.

BRITISH SCHERING, LTD., 167 Great Portland Street, London, W.1, have made the following appointments to their staff of representatives: Mr. R. Beddow, Ph.C. (North-west England and North Wales), Mr. W. W. Heselstine, M.P.S. (West Midlands and South Wales), and Mr. R. B. B. Williamson, M.P.S. (Scotland and Northern Ireland).

TOPICAL REFLECTIONS

Economic Problems

The speech of the chairman (Mr. L. P. O'Brien) at the annual meeting of the Association of British Chemical Manufacturers (p. 470) was a valuable contribution to the understanding of economic problems. You have commented so explicitly on his remarks on German industries that I need not refer further to the topic. What Mr. O'Brien said about the prospects of chemical manufacturers in the United Kingdom has the authority which only an intimate knowledge of the subject can give. We can all enjoy his *obiter dictum* that "the air is full of loud voices of those who are beginning to learn the elementary facts of economics." In commending his diagnosis of difficulties to the attention of all your readers, I may add that it does not stand alone. From contemporary daily, weekly and monthly publications, a significant volume of similar evidence can easily be obtained. As an example, a comparison of British efficiency in industry with that of the United States and Canada (cited by Sir Malcolm Stewart in "The Times" of October 18) is instructive. British efficiency in relation to its counterpart on the other side of the Atlantic is analysed thus: "Slower working pace accounts for a deficiency of between 15 and 20 per cent. Lack of sufficient number of the most modern of industrial tools and equipment is responsible for some 30 per cent. . . . It is the greater cost of the elaborate control both by the Government and of management which account for the remainder—i.e., 50 per cent. of the total deficiency." The same observer, Mr. Lewis C. Ord, estimates that American industrial efficiency is approximately double the British standard at the present time.

Standardisation in the B.P.

The lecture of Dr. G. E. Foster on analytical control in manufacture (p. 461) dealt with a subject of importance to every pharmacist. I presume that the lecturer went back further than 1898 in his survey of the standardisation requirements of the British Pharmacopœia. Those of us who were "brought up" on its predecessor of 1885 remember a few instances of pharmacopœial processes for ensuring alkaloidal strength within defined limits. Opium, with 9.5-10.5 per cent. of morphine, was one; extract of nux vomica (15 per cent. of total alkaloid) and liquid extract of

cinchona (5 per cent. of total alkaloids—in the plural), were others. In the case of opium the prescribed method of assay might be varied by using "any trustworthy method": if memory serves, there was considerable discussion among analysts as to the most satisfactory process. In the 1898 B.P. a defined proportion of total alkaloids was required, in addition, for tincture of belladonna and simple and compound tinctures of cinchona. Tincture of belladonna was now prepared from a liquid extract of the root, a new preparation containing 0.75 gm. of alkaloids in 100 c.c. With characteristic official reluctance to change, neither of the solid extracts of belladonna was standardised: the green extract was left as it had been, and we were merely told, in a footnote, that the new alcoholic extract, made from the root, contained about one-third of the alkaloids present in "average samples" of the corresponding preparation of the 1885 Pharmacopœia.

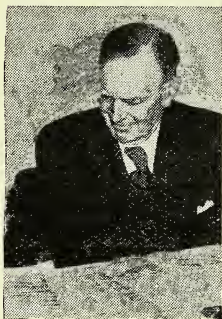
Electuarium

As you have indicated on p. 487, the word electuarium has long had general preference over the word electarium. The Oxford English Dictionary states, with scholarly caution, that the name is perhaps a corrupt derivative of the Greek noun *εκλεκτον*, which comes from the verb *εκλεχειν*, to lick out. (The same verb, I may note in passing, has suggested eclegma, anglicised as eclegme, an old term for a linctus.) The glossary of Du Cange, after giving the generally accepted derivation from Greek, adds that other etymologists favour "electio speciebus" (choice of ingredients), "ab electione rerum, e quibus conficitur." Numerous quotations are given. The variant electarium is attributed by the same authority to Cælius Aurelianus, and two Greek variants to Myrepsus. Another spelling has been found. The Proceedings of the Royal Society of Medicine for 1934 contain (XXVIII, 1157) an account by the late C. J. S. Thompson, of four bills, now in the British Museum, three from English apothecaries and one from an English Spicer. The first bill, dated from about 1264, is headed "Electuria de Roberto de Moute Pesolano." One wonders whether this spelling was widely used, or whether it was due to the fancy or even to the error of some thirteenth-century scribe. At any rate, these six spellings, three Greek and three Latin, are on record. **Xrayser**

DEATHS

GREGORY.—At 43 Shorncliffe, Folkestone, on October 13, Mr. Brooke William Gregory, M.P.S., 18 High Street, Cheriton, Folkestone, aged sixty-four.

GRIMWADE.—At Cheadle, Ches, October 17, Mr. Frederick William Grimwade, aged eighty-three. Mr.



Grimwade was appointed first chairman of directors of Drug Houses of Australia Export, Ltd., on April 1, 1935, and became managing director of the company on October 1, 1937, holding the position until June 1946. For forty-six years he was a partner in Grimwade, Ridley & Co., and for

many years he was chairman of the Australian and New Zealand Merchants' Association.

HOWELL.—At the Royal Masonic Hospital, London, W.6, on October 15, Mr. Edward George Howell, M.P.S., aged sixty-five. Mr. Howell was founder and managing director of E. G. Howell & Sons, Ltd., chemists, 130 Queen Street and 37 Whitchurch Road, Cardiff, and had been in retail business for thirty-five years. Mr. Howell was a founder member of the Galen Lodge, Cardiff. He is survived by his widow and two sons (one, Mr. D. P. Howell, a pharmacist), all of whom are directors of the company).

JOHNSTONE.—On October 11, Mr. James Arthur Johnstone, M.P.S., 17 St. Mary Street, Wallingford, Berks, aged sixty-seven. Mr. Johnstone was mayor of Wallingford from 1941 to 1946. Two of his four sons are pharmacists.

WILLS

MR. WALTER TURNBULL GAVIN, M.P.S., Penrith, Cumberland, left £372.

MR. FREDERICK HUSBANDS, 62 Church Street, Stapleford, Notts, retired pharmacist, left £2,103, with net personalty £2,053.

MR. FREDERICK GEORGE WALTON, M.P.S., 4 Clarendon Road, Haughton-le-Skerne, Darlington, left £1,022.

MR. JOSEPH KILPATRICK, 4 Randal Park, Portrush, co. Antrim, formerly proprietor of R. A. Austin, Londonderry, left £47,354.

MR. ARTHUR WINTERBOTTOM, M.P.S. 219A Preston Road, Brighton, formerly of 17 Hilton Road, Leeds, left £349.

MR. ROBERT WILLIAM STARLING, M.P.S. 67 The Drive, West Worthing, Sussex, formerly of The Pharmacy, Rotherfield, Sussex, left £1,892, with net personalty £1,488.

MR. FRANK YOUATT, Broad Lane, Hale, Cheshire, a former chairman of James Woolley Sons & Co., Ltd., Manchester, left £57,733, with net personalty £57,538.

MR. ARNOLD LYNDON, M.D., O.B.E., Rectory, Grayshott, Hindhead, Surrey, a former vice-president of the British Medical Association, left £44,885, with net personalty £44,652.

MR. RICHARD DILL SMYTH, 29 Hollan Park, Belfast, formerly a director of John Clark & Co. (Successors), Ltd., pharmaceutical chemists, Belfast, left personal estate in England and Northern Ireland valued at £8,998.

INQUESTS

Not Due to Overdose.—At an inquest on a six-months-old child at Gloucester recently, a hospital physician said he had prescribed min. 6 of Nepenthe pre-anesthetically when the child was admitted to the Gloucestershire Infirmary suffering from burns. A pathologist at the South-western Forensic Science Laboratory said there was nothing to suggest that death was due either to an overdose of Nepenthe or to the picrotoxin administered as an antidote. The jury returned a verdict of accidental death.

Caustic Soda in Wine Bottle.—At an inquest at Shrewsbury recently on a local rector, a verdict of death by misadventure was returned. It was stated that the rector was making ready the sacramental wine when he became suspicious of the colour of the liquid; he tasted it, and became ill and died. It was subsequently found that the bottle contained caustic soda.

Treated with New Drug.—At an inquest held at Reigate recently on Brian John George Henry Phillips, aged ten, of Chertsey, a doctor stated that the boy had been treated with Tridione, receiving four tablets a day. The child commenced to run a temperature and was removed to hospital, apparently suffering from a blood disorder. The pathologist who had conducted the post-mortem stated that he found changes of the liver, spleen and bones, and formed the opinion that death was due to agranulocytosis. He could not rule out the possibility of the drug being the cause of death. A verdict of death from natural causes was returned.

PERSONALITIES

MR. C. F. I. RAMSDEN (overseas director of the Federation of British Industries) has returned to this country after a fortnight's tour of Poland, during which he studied the country's requirements of equipment for the years 1947-1949, which cover a three-year reconstruction plan for the country.

MR. W. G. HUTCHESON, M.P.S. (secretary, Southampton Pharmaceutical Committee), was the author of a letter to the "Southern Daily Echo" recently protesting against statements which had been made in the Press suggesting that the loss of packages of drugs were due to "doctors' amnesia" or "chemists' dilemma." He pointed out that the drugs were usually lost through the carelessness of patients after receiving them from the doctor or chemist.

MR. EDWARD PINE, editor of an anthology "The Pauline Muses," recently published by Victor Gollancz, Ltd., and which includes verse and prose excerpts from the works of former scholars at St. Paul's School (among them John Colet, its founder; the first Duke of Marlborough; Samuel Pepys; Thomas Ingoldsby; Samuel Johnson, G. K. Chesterton, Laurence Binyon, Compton Mackenzie and Viscount Montgomery), is a son of the late Mr. George Centenary Pine, Ph.C. (d. 1945). Mr. Edward Pine is a master at St. Michael's School, Tenbury Wells, Worcs. During the war he was a Flight-Lieutenant in the Royal Air Force.

MR. T. HESELTINE, M.P.S., who contributes to this issue an account of a recent trip to the United States and Canada, went as a director of the Rexall Drug Co. to be present at the opening of the company's 4-million-dollar headquarters in Los Angeles. He visited Toronto, Buffalo, Boston and Hollywood, calling at, among other places, a pharmacy in Toronto carried on as a "pure" pharmacy, two pharmacies in New York also carried on as "pure" pharmacies, namely Cole, Dominick & Rogg, 23 East 40th Street and J. Leon Lascoff & Son, 82nd Street. "All were pleased to meet a British pharmacist," writes Mr. Heseltine, "and showed me round their establishments. Mr. Lascoff invited me to sign his visitors' book, in which I found such well-known signatures as Herbert Skinner and Tom Marns." Mr. Heseltine was interviewed in New York by Mr. R. Turner (editor of "Pharmacy International"), to whom he gave a long article on pharmaceutical organisation in Britain.

NEW BOOKS

Chemicals: Servant or Master—Life or Death.—Bob Edwards. 8½ x 5½ in. Pp. 141. 3s. 6d. National Labour Press, Smith-Dorrien Road, Leicester. Though it is normally outside the scope of this paper to review political tracts and propagandist works in general, this book by the acting general secretary of the Chemical Workers' Union, "states a case for the common ownership" of the chemical industry, and therefore deserves study by those engaged in it, if only to be forewarned as to possible lines of attack. Among other purposes the book claims to achieve are "a complete analysis of the ramifications of the I.C.I." and of the "cartelisation" of the industry.

Fundamentals of Photography.—Paul E. Boucher, Ph.D. 9 x 6 in. Pp. 396 and liij. 22s. 6d. D. Van Nostrand Co., Inc., New York. Macmillan & Co., Ltd., St. Martin's Lane, London, W.C.2. Apart from unfamiliar titles in such things as lists of cameras, this well-stocked American textbook, first published in 1941, and the second edition of which, dated 1947, has been made available in this country, should command an extensive readership in this country. Written because the author "realised that text-books on photography were decidedly lacking," it presents the lecture and laboratory notes that have formed the basis of a single-term course in photography for students "who had in most cases completed a high-school course in physics or chemistry," supplemented by tables of measurement, a formulary and glossary. The author's method is straightforward, proceeding from fundamentals through the chemistry of developing and fixing and the physics of lenses, diaphragms, correction of aberrations, etc., to more detailed consideration of emulsions, development and printing, correct rendering of colour, enlarging, intensification and reduction, etc., and on to additive and subtractive colour processes, ultra-violet and infra-red photography, x-ray work and cinematography. Illustrative diagrams are numerous, and the half-tone illustrations are excellently reproduced and well selected to make clear the author's points. Particularly valuable are the comparative illustrations, such as the results obtained by photographing the same scene at different times of day or through various types of filter. The test questions which conclude each chapter will enable students to judge how far they have mastered each aspect of the subject before passing to the next.

TRADE NOTES

Sole British Distributors.—Persista, Ltd., 19 Green Lane, Amersham, Bucks, have been appointed sole authorised distributors in England for Parfum Verlayne, Paris ("Attente").

Bonus Offer.—John Wyeth & Bro., Ltd., 25 Oldhill Place, London, N.16, announce on another page a special offer during November of Endrine nasal compound at fourteen-to-the-dozen terms, in return for a fourteen days' showcard display. Orders must be of $\frac{1}{2}$ -gross and upwards, and may be made either direct or through wholesalers.

Exclusive Pack.—C. R. Harker, Stag & Morgan, Ltd., Emmott Street, London, E.1, illustrate in this issue their new exclusive pack for the company's malt preparations. They claim that the new pack is hygienic, tested for all climates, light, convenient, attractive and unbreakable.

In Ample Supply.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce that they have now built up ample stocks of the following specialities of the company: Crookes Lacto-calamine lotion; Crookes Bromoform Co.; F.C.V.D. ferro-cuprum with vitamin D in malt extract; Collotone; and Halimalt.

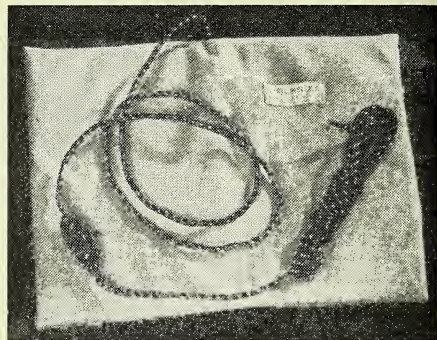
Cosmetics Stand at an Exhibition.—Among exhibitors at a "Women at Work" exhibition held at Bournemouth, October 7-11, were Max Factor & Co., West Howe, one of the newest industrial concerns to be established locally. The factory was taken over from the Ministry of Supply, and is featured in a striking display of photographs at the company's stand at the exhibition.

Vitamin Preparations.—Announcements relating to vitamin products are made in this issue by ELI LILLY & CO., LTD., Basingstoke (Beta-Cevalin, Betalin, Ferri-Betalin, Hepicebrin, Hepicoleum, etc.), ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts (Becosym vitamin-B complex tablets, Synkavit vitamin-K analogue, etc.), and SHARP & DOHME, LTD., Hoddesdon, Herts (elixir Virvina vitamin-B complex with glycerophosphates).

Medical Booklets.—BRITISH SCHERING, LTD., 167-69 Great Portland Street, London, W.1, have issued revised editions of their standard pamphlets or booklets on Atophan, Cortiron and Uroselectan-B.—MAY & BAKER, LTD., Dagenham, have

issued the fifth edition of their standard publication of Neo-Hydriol brand iodised ethyl esters of poppyseed oil and iodised oil of poppyseed, and a second edition of their publication of sulphanilamide-M. & B.

Electric Bed Warmers.—Experience with several previous models has been drawn on to effect improvements in the new Jackson electric bed comfort marketed by



S. B. Jackson, Ltd., Windsor House, Victoria Street, London, S.W.1. The redesigned pad is rated at 30 watts, but under average loadings consumes about 20 watts under thermostatic control. The size is $13\frac{1}{2}$ in. x 18 in., and the cover is in blanket material in pastel shade. The thermostat is of vacuum evacuated type, and the contacts cannot oxidise or be interfered with by dust, moisture or foreign matter. The pad is provided with in-bed switch and 18 ft. of flex, and can be used on all normal supply voltages. For medical cases, low-, medium- and high-temperature models have been developed.

Chemical Manufacturers' Directory.—The 1947 edition (the 79th) of the "Chemical Manufacturers' Directory of England, Wales and Scotland," has been published by Newnham, Cowell & Gripper, Ltd., 15 City Road, London, E.C.1, for the proprietor (Mr. A. J. Pilbrow), and is available through Simpkin, Marshall (1941), Ltd., at a price of 5s. 6d. Comprising 198 pages, it contains a classified list of chemicals, showing the makers of each kind, a list of chemical brokers and agents in London, and an alphabetical list of manufacturers.

Winter Specialities.—EMMET DISTRIBUTING CO., LTD., 140 Park Lane, London,

W.I., offer show material for their speciality Velocium for treating colds.—Attention is drawn in an announcement by STAFFORD ALLEN & SONS, LTD., Wharf Road, London, N.1, elsewhere in this issue, to a number of galenicals for which there is a heavier winter demand.—Additional Press advertising to stimulate the autumn and winter demand for Towle's chlorodyne is being commenced shortly; orders should be placed through wholesalers or direct to JAMES WOOLLEY, SONS & CO., LTD., Victoria Bridge, Manchester, 3.—Seasonal advertising is again being placed by WRIGHT, LAYMAN & UMNEY, LTD., London, S.E.1, for Wright's coal tar inhaler and vaporiser.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Chatelain Preparations*: Boldarem, 48s. doz., tax 7s. 7d. doz., inclusive retail price 5s. 8d.

Alfred Fenning: Fennings' whooping-cough mixture, 10s. doz., tax 1s. 8d. doz., i.r.p. 1s. 3d.

Howard-Taylor, Ltd.: Ventay cough mixture, 2s. 2d., 17s. doz., tax 2s. 10d. doz., i.r.p. 2s. 5d.

Eli Lilly & Co., Ltd.: Details on application to secretary, P.A.T.A.

W. J. Rendell, Ltd.: Protocon, 1s. 9d., 14s. doz., tax 3s. doz., i.r.p. 2s.

Roche Products, Ltd.: Saridone brand analgesic tablets, 10's, 10s. doz., tax 1s. 8d. doz., i.r.p. 1s. 5d. Benerva vitamin B₁ tablets, 10-mgm., 25's, 4s. 6d., 36s. doz. 100's, 15s., 120s. doz.; 25-mgm., 25's, 9s., 72s. doz.; 100's, 30s., 240s. doz. (exempt from tax).

Tampax, Ltd.: New pack, November 1, Super-absorbent Tampax No. 2; packets of ten, 2s., 18s. doz. (exempt from tax). Existing pack will be known as "Regular Tampax No. 1."

Wigglesworth, Ltd.: Opasillin, 13s. 3d. doz., one doz. 12s. 6d., tax 1s. 11d., i.r.p. 1s. 9d. Minimum direct order for any of Wigglesworth's proprietaries, one dozen.

Alterations to List (Part 1).—*Allied Laboratories, Ltd.*: Restamon lozenges, 36's, 12s. 6d. doz., tax 2s. 1d. doz., i.r.p. 1s. 9d.

John Bell, Hills & Lucas, Ltd.: Cresyl Bell liquid, 4-oz., 1s. 7½d., 11s. doz.; 16-oz., 4s. 11d., 35s. doz. (exempt from tax). Oxford liniment, 3-oz., 12s. 6d. doz., tax 2s. 1d. doz., i.r.p. 1s. 9½d. Paramag and Parathal, 4-oz., 9s. 6d. doz., tax 1s. 7d. doz., i.r.p. 1s. 6d.; 8-oz., 2s. 2d., 15s. 3d. doz., tax 2s. 6½d. doz., i.r.p. 2s. 4½d.; 16-oz., 3s. 8d., 24s. 9d. doz., tax 4s. 1½d. doz., i.r.p. 4s.

Gilmot Products, Ltd.: G.P.D. and G.P.D. jelly, 3s. 6d., 28s. 10d. doz., tax on G.P.D. only, 9s. 7d. doz., i.r.p. 4s. 3½d. (G.P.D. jelly exempt from tax). G.P. solubles, 2s. 6d., 20s. 4d. doz. (exempt from tax).

Eli Lilly & Co., Ltd.: Details on application.

Potter & Clarke, Ltd.: Hedakene, loose powders, 1d., 8s. gross (tax 1s. 4d. gross), i.r.p. 1½d.

Pond's Extract Co., Ltd.: Orders value £5 (inclusive of toilet lines) invoiced on best terms: 1s.

sizes, 7s. 9d. doz.; 1s. 3d. sizes, 10s. doz. Pond's extract, 2s., 16s. doz.

A. J. White, Ltd.: Mother Seigel's digestive syrup, 2s. 3d., 20s. 3d. doz., tax 3s. 4½d. doz., i.r.p. 2s. 6½d.; prices in Eire: 2s. 8d., 24s. doz.

Wright, Layman & Umney, Ltd.: Liq. Carb. Det., 14s. doz., tax one-sixth, i.r.p. 1s. 9d.

Additions to List (Part 2).—*Addis, Ltd.*: Addis Wisdom baby's tooth-brush, 6s. 3d. doz., tax 2s. 1d. doz., i.r.p. 1s.

Culmak, Ltd.: Chum shaving-brush, 4s. 8½d., 37s. 6d. doz., tax 12s. 6d. doz., i.r.p. 5s. 9d.

John Freeman & Co., Ltd.: Spa Nylon tooth-brushes, No. 5, prophylactic, 12s. 1d. doz., tax 4s. doz., i.r.p. 1s. 10d. T.N.T. (envelope), 12s. 6d. doz., tax 4s. 2d. doz., i.r.p. 2s.

Howard-Taylor, Ltd.: H-T. scented cachous, 7d., 3s. 6d. doz., tax 3s. 6d. doz., i.r.p. 9d.

Thos. Reid & Sons, Ltd.: Bamyl shaving stick in plastic holder, 14s. 6d. doz., tax 4s. 10d. doz., i.r.p. 2s.

Pond's Extract Co., Ltd.: Face-powder, medium, 11s. 3d. doz., tax 11s. 3d. doz., i.r.p. 2s. 2½d.; large, 2s. 1d., 18s. 7d. doz., tax 18s. 7d. doz., i.r.p. 3s. 7½d.; hand-lotion, 7s. 10d. doz., tax 7s. 10d. doz., i.r.p. 1s. 6d. Orders value £5 and upwards (toilet and medicinal included), invoiced on best terms: 1s. 2d. sizes, 5s. doz.; 1s. 3d. sizes, 5s. 3d. doz.; 1s. 6d. sizes, 6s. 8d. doz.; 2s. 2½d. sizes, 10s. doz.; 2s. 7½d. sizes, 12s. doz.; 3s. 7½d. sizes, 16s. 10d. doz.; 5s. 3d. sizes, 24s. doz.; 10s. 6d. sizes, 48s. doz.

Sparklets, Ltd.: Sparklets "streamline" syphon with drip tray, 74s. 9d., 672s. 9d. doz. (exempt from tax); C bulbs, boxes of twelve, 6s., 57s. doz. (exempt from tax).

Sta-Blond Laboratories, Ltd.: Brunitex shampoo, 4s. doz., tax 1s. 4d. doz., i.r.p. 7½d.

Stafford-Miller, Ltd. (Agents: *Splendor, Ltd.*): Corega denture-fixative powder, 1s. 6d., 12s. doz.; 2s. 6d., 20s. doz. (exempt from tax).

Trufood, Ltd.: High-protein food, Presol brand, 16-oz., 4s. 6d., 43s. 3d. doz.; three dozen, 42s. doz.; six dozen, 10s. 6d. doz. (exempt from tax).

Alterations to List (Part 2).—*Bleasdale, Ltd.*: Bleasdale's Minaret ball-room floor-polish, 1s. 6d., 12s. 6d. doz. (exempt from tax).

Bristol-Myers Co., Ltd.: Ingram's shaving-cream in tubes, 16s. 3d. doz., tax 5s. 5d. doz., i.r.p. 2s. 6d.

R. Demuth, Ltd.: Talcum toilet powder, 3½-oz. oval sprinkler tins, 16s. 8d. doz., tax 16s. 8d. doz., i.r.p. 3s. 6d.

Evan Williams Co., Ltd.: Wave set, 7½d., 5s. 4d. doz., tax 5s. 4d. doz., i.r.p. 1s. 1d.

Thomas Harley, Ltd.: Restoration of small sizes: Rodine (red squill) rat poison and Rodine phosphorus beetle and cockroach poison, 7½d., 5s. doz. (exempt from tax).

The Lincoln & Midland Counties Drug Co., Ltd.: Clarkes medicated soap, 107s. 6d. gross (tax 35s. 10d. gross), i.r.p. 1s. 5d.

Scott & Bowne, Ltd.: Kemdex denture cleanser, large size, 15s. 7d. doz., tax 5s. 2½d. doz., i.r.p. 2s. 2d.

Solport Bros., Ltd.: Super non-flam sports shade, D430, 132s. 6d. doz., tax 10s. 10d. doz., i.r.p. 4s. 5d.

Steradent, Ltd.: Prices in Eire, Steradent denture-cleaner, 1s. 3d., 11s. 3d. doz.

Luft-Tangee (London), Ltd.: Tangee rouge vanity and face-powder now sold only for export.

LEGAL REPORTS

Theft by Window-dresser.—For stealing goods and cash, value £58, from Mr. Arthur Preston, M.P.S., Whalley, Lancs, John Jessop (64), a Liverpool window-dresser, was bound over for twelve months and ordered to repay the money at the rate of £1 a week.

Inspector's Appeal Upheld.—A King's Bench Divisional Court on October 17 allowed with costs an appeal by William Roger Breed, chief Food and Drugs Inspector for Dorchester, against a decision of the Sherborne magistrates dismissing summonses against The British Drug Houses, Ltd., alleging that they had sold sodium thiocyanate pills deficient in the drug content. In their case stated for the opinion of the court, the magistrates found that one quantity of the pills, which were supplied to Dr. Jeaffreson Harris, Sherborne, was required to contain gr. 1 each of sodium thiocyanate, and another quantity gr. 3 each. Defendants were manufacturing chemists of high repute and had never been previously summoned. The pills were made by hand in accordance with current pharmaceutical practice, and the defendants were not aware at the time of any deficiency. Each of the pills analysed was found to be deficient to the extent of 23 per cent. of the drug content, and the magistrates decided that the deficiencies were not due to any act or default of the defendants, who had adopted the normal trade practice in making the pills without any allowance for wastage. The Lord Chief Justice (Lord Goddard) said that defendants were a firm of the highest reputation, and their explanation of the deficiencies was that, in the making by hand, there was wastage through material sticking to the hands or implement, and they could not guarantee that a pill contained exactly one grain or three grains. It would not pay them financially to test each pill before it was sent out, but in those circumstances the defendants should inform a purchaser that, instead of getting 1-grain or 3-grain pills he was getting something less. The potency of the pills was clearly affected by the deficiency, and the pills were therefore not of the nature and quality demanded. In the circumstances the defendants could not avail themselves of the defences provided by Statute, and the case must go back to the magistrates with an intimation that an offence had been proved. Justices Humphreys and Singleton concurred.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Tuesday, October 28

EIRE PHARMACEUTICAL STUDENTS' REPRESENTATIVE COUNCIL, 67 Lower Mount Street, Dublin, at 7.30 p.m. Annual meeting.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Grove Road Schools, Cromwell Road, Hounslow, at 8 p.m. Mr. F. G. Wells (a member of the Pharmaceutical Society's Council) on "Matters of Pharmaceutical Interest."

NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, North Library, Manor Gardens, Holloway, London, N.7, at 7.30 p.m. Report on Branch Representatives' meeting at Torquay, and Mr. F. B. Royal on "Continental Pharmacy" (illustrated by lantern slides).

Wednesday, October 29

SHEFFIELD BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Metallurgical Club, Sheffield, at 7.30 p.m. Detective-superintendent Towell (Wakefield Forensic Laboratory) on "Science in the Detection of Crime."

Thursday, October 30

MANCHESTER BRANCHES, PHARMACEUTICAL SOCIETY, and GUILD OF PUBLIC PHARMACISTS, Lecture Theatre, St. Mary's Hospital, Manchester, at 7.45 p.m. Dr. R. Forgan on "British Contribution to Tropical Medicine."

SOCIALIST MEDICAL ASSOCIATION, Denison House, 296 Vauxhall Bridge Road, London, S.W.1, at 7 p.m. Mr. J. Saunders on "The New Zealand National Dental Service" (illustrated by film show).

SHEFFIELD SECTION, CHEMICAL SOCIETY, Chemistry Lecture Theatre, Sheffield University, at 5.30 p.m. Lecture by Professor G. R. Clemo.

Friday, October 31

GLASGOW SECTION, CHEMICAL SOCIETY, Chemistry Lecture Theatre, Glasgow University, at 3.45 p.m. Professor H. Nicol on "From the Highest to the Lowest."

Monday, November 3

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Dr. W. Bullock on "The Effect of the War on Medicine."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Market Room, Golden Lion Hotel, Romford, at 7.30 p.m. Mr. W. J. Tristram (a member of the Pharmaceutical Society's Council) on "Current Pharmaceutical Affairs."

WESTERN PHARMACISTS' ASSOCIATION, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Second Lecture in refresher course: Dr. H. E. Archer on "Special Investigations relating to Endocrine Disorders."

EDINBURGH DISTRICT WINDOW DISPLAY COMPETITION (organised by the Crookes Laboratories, Ltd.). November 3-15.

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, is holding a dance at the Mansion House, Roundhay, Leeds, on Wednesday, November 19, 8 p.m.-1 a.m. Tickets (price 10s. 6d. each) from secretary.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, is holding a whist drive at the Cadet Hall, Hounslow, on Wednesday, November 5, at 8 p.m. Tickets (price 4s. each) may be obtained from Mr. V. M. Bond, 3 Ravensdale Gardens, Hounslow.

ADVERTISING OF DISPENSING

Companies and Pharmacist Directors before Statutory Committee

In London on October 6 and 7 the Statutory Committee of the Pharmaceutical Society of Great Britain, Mr. H. Hull, F.B.E., in the chair, considered charges of advertising dispensing services brought against a director of a manufacturing pharmaceutical company; against a director of a subsidiary retail company who was also its superintendent pharmacist; and against the retail company itself. The retail company is an authorised seller of poisons. Sir Valentine Holmes, K.C., and the Hon. T. G. Roche appeared for the parent company and its associates. Mr. H. Glyn-Jones, K.C., and Mr. T. Dewar appeared for the Council of the Pharmaceutical Society.

Mr. Glyn-Jones said that on the board of the parent company were some directors who were pharmacists and some who were not. The company was not an authorised seller of poisons, and he thought that the Committee had no jurisdiction over it, nor over any member of its board who was not a pharmacist. The business of the company in distributing drugs and medicines by retail was carried on through subsidiary companies. Upon each of the boards of those companies there sat some gentlemen who were pharmacists, and each company had one director who was the registered superintendent. Since each company was an authorised seller of poisons, the Committee had jurisdiction over it, and over each of its pharmacist directors.

Difference of Opinion

The subject-matter of the inquiry was a difference of opinion that had arisen between the Pharmaceutical Society and the organisation concerning the propriety of a pharmacist's advertising the quality of his dispensing of medicines. What was being ventilated was a *bona-fide* difference of opinion as to what were the rights of the pharmacist in the matter of the advertising of dispensing services. It was at first thought that the issue could be successfully and clearly covered by taking the three original respondents as fairly representative of the class to which each belonged. Since the original notices of inquiry were issued the respondents' solicitors had raised certain objections to the form in which they were issued. He wished to make clear the position by saying that notice had been served on a director of the parent company and that it was implicit in an accompanying

letter that the company was being treated as the body which controlled the activities of the subsidiary companies. What was said against the pharmacist on the board of the parent company was that he, with the other pharmacist directors, shared collective responsibility for its conduct; if, as a pharmacist, he had taken part in authorising or directing the subsidiary companies to do that which was misconduct, then he himself was guilty of misconduct. Mr. Glyn-Jones undertook to cause a short addition to be made dealing specifically with the position of the director of the parent company.

Correspondence between the Society and the secretary of the parent company was then read to show that the company had been requested to discontinue the advertising of dispensing services but had not seen its way to comply. Letters on similar lines were subsequently sent to the superintendent pharmacists of the subsidiary companies, and to the secretary of each. Finally, a letter was sent to the secretary of the parent company, to which he replied expressing disagreement with "the whole thesis" of the Society's letter and stating that if the matter were taken before the Statutory Committee, his directors would represent to that Committee, and, if need be, to the High Court, that the Council was acting improperly and in excess of its powers in endeavouring to enforce, by threats of disciplinary action, the observance of paragraph 7 of its Statement upon Matters of Professional Conduct, a statement "avowedly issued by the Council for the purpose of guidance only." The companies contended that they had not published "advertisements implying that the standard of professional service rendered by pharmacists varies as between one establishment and another," and had no intention of embarking upon publicity which could carry that construction.

Mr. Glyn-Jones asked the Committee to examine a series of advertisements issued by the parent company. In one of them a gentleman in a white coat, with a dispenser's balance "poised upon the edge of the dispensing counter and serving as a kind of barricade between him and his work," was engaged in pouring a liquid from a measure. One of the ingredients appeared to be carbonate of magnesium, "which it is extremely difficult, I should have thought, to get into a clear solution."

"I have said that my submission on behalf of the Society is that all advertisement of dispensing services beyond that contemplated as permissible in the code of conduct to which I have referred is objectionable, undesirable. It is permissible that a pharmacist should do that which a doctor may do by way of informing the public that at the particular premises dispensing is carried on. . . . I stand upon the code on matters of professional conduct. But while this is the basis of the Pharmaceutical Society's case here, the Society has no power, even if it wished to do so, to deny to this Committee jurisdiction to say, if the Committee think fit, that the particular advertisements which have been brought before the Committee go beyond the bounds of what, in the opinion of the Committee, is permissible."

The Chairman at this point asked for it to be made clear whether the case was being put that a departure from the code was such misconduct as was spoken of in the regulations, or that, code or no code, the advertisements constituted misconduct.

Mr. Glyn-Jones considered that there were strictly three ways in which the matter ought to be put, the third being that if the governing body of the profession laid down a rule of conduct and that rule was deliberately disregarded and disobeyed by a member, *prima facie* there was evidence of misconduct upon which the Committee were entitled to take disciplinary action. He was putting it forward that to break a rule was misconduct within the meaning of the regulation, but did not claim the power of the Society to fetter the Committee's decision by calling upon it to say that breach of the rule was necessarily punishable by the Committee. He was asking the Statutory Committee to approve of the rule and to say that it set a right standard of practice, and that pharmacists who did not comply with it were guilty of not comporting themselves as pharmacists; that was misconduct. If the Committee thought the rule too widely expressed, it might then have to lay down its own boundary line between what was and what was not permissible advertisement of dispensing services. In that event he would ask the Committee to say that the particular advertisements which were before it fell upon the wrong side of that boundary line.

Mr. Glyn-Jones went on to argue that, as the governing body of the Pharmaceutical Society had striven for more than a hundred years to raise the status and dignity of the pharmaceutical profession, it

was clearly right that they should seek to discourage the advertising of personal services, professional services, such as the dispensing of medicines. Further, a properly constituted conference of representatives of branches of the Society had approved the prohibition of advertising of dispensing services. The only proper method of dealing with advertising of this kind was to prohibit it altogether.

Evidence by Society's Secretary

Mr. Hugh N. Linstead (secretary of the Pharmaceutical Society) who was called to give evidence, affirmed that a Branch Representatives' meeting had requested the Council, in consultation with representatives of the branches, to consider a code of ethics. One of the matters brought to the attention of the Council was advertising of dispensing services. A code had been drawn up and steps taken to bring it to the notice of pharmacists. In the opinion of the Council it was desirable that advertising of dispensing should not be allowed because (a) it detracted from the standing and responsibility of qualified pharmacists in the eyes of the public; (b) it tended to create internal dissatisfaction as between one pharmacist and another; (c) it commercialised a function which was essentially professional.

Cross-examined by Sir Valentine Holmes Mr. Linstead acknowledged that schemes to advertise the dispensing services of pharmacists had been put forward by the National Pharmaceutical Union and by overseas organisations, and he undertook to examine editorial articles printed in the Society's organ during the currency of the N.P.U. campaign to see whether he could agree that that paper had given consistent support to the scheme. He pointed out, however, that the fundamental difference between the type of advertisement before the Committee and the type of advertisement contemplated by the National Pharmaceutical Union was that the latter was not specifically directed to any one firm or any one individual.

In cross-examination upon exactly what forms of advertising were permitted by the code, Mr. Linstead agreed that on an advertisement a pharmacist could put the words "Dispensing chemist," provided the overall implication of the advertisement was not to advertise dispensing services but thought the intention at the time of framing it had been to limit the use of the description "Dispensing chemist" to the pharmacist's premises.

Seizing on this apparent lack of certainty on the part of the secretary of the Society, Sir Valentine Holmes stressed the importance of knowing what the code meant. The Chairman agreed, but said it was a matter for discussion between the two counsel and the Tribunal.

When Sir Valentine endeavoured to suggest that the Council had failed to stop many advertisements by other corporate bodies and pharmacists, Mr. Linstead declared that he could set against the advertisements that had been produced, at least as many that had been stopped by the Council.

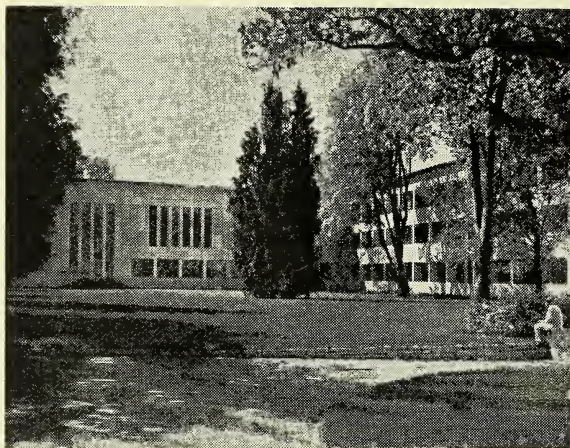
Recalled at the resumption on October 7, MR. Linstead handed in an analysis of the sixty-three advertisements which he had been asked to scrutinise. He also answered questions on articles that had appeared in three journals. Mr. Linstead considered that in none of the official statements had there been any suggestion that the N.P.U. advertising scheme was intended as a means of enabling the small man to compete against the company. The primary purpose behind the scheme was to enable the public to differentiate between the chemist and his unqualified competitors, he said. The attitude of the Pharmaceutical Society was that they were only now beginning to build up standards of professional conduct, where up to 1936 none had existed. Within the advertising field the Pharmaceutical Society would say that there was a distinction between the trading element of the chemist's business and the professional element. Within the professional field there must be regulation. It was intolerable that there should be, so to speak, varieties of standards according to the enthusiasm of different advertisers. Advertising, secondly, created bad relations within pharmacy.

SIR VALENTINE HOLMES, in making his submission to the Committee, claimed that the publication of any one of the seven advertisements, or each and all of them, could not, as a matter of law, be misconduct such as would render the pharmacist who authorised the publication unfit to be on the Register. Pharmacy, while being professional in training, was commercial in practice. What the Council had done was to make a statement. Nobody could object to its making a statement, but it was a statement which the law gave it no power whatsoever to enforce. Before one could get misconduct, one must have moral turpitude; and none was suggested in the case before the Committee. He was not suggest-

ing that it might not be highly desirable to improve the status of pharmacists. He was not suggesting that standards should not be set up, but was suggesting that they could not be set up in that way. The Society had complete power to deal with its by-laws, subject to the restriction that there must be confirmation by three meetings of the Council and by the Privy Council, and that was the way, in his submission, in which the objects of the Society could be carried into effect. His submission was that to say that one could pick out certain pieces of advertising and say: "You must not have those, but you may have others," was hopeless. He was not suggesting that it might not be desirable that some parts of what was to be found in these rules, and perhaps all, should be effective; he was saying that they were not effective because, on the proper construction of the Act of Parliament, "professional misconduct" was not dealt with, and even if it were, the advertising of dispensing would not be professional misconduct. What was dealt with was "misconduct."

MR. GLYN-JONES was called upon to answer certain questions put by the Chairman. He said that, under the code, advertisements to the public should not refer to dispensing services. There was an exception. The words were that the prohibition "shall not apply to the use of the description 'dispensing chemist' or to the exhibition of a notice at any premises stating that dispensing is carried on there." MR. GLYN-JONES thought as a matter of construction it was difficult to attach any of the words after the word notice to the use of the description "dispensing chemist." He agreed that where there was a prohibition, it ought to be expressed in reasonably clear terms, and that if a document of any kind, either expressly or by implication, allowed the use of the phrase "dispensing chemist" in an advertisement, it would be a little hard to say that somebody who used the words "dispensing chemist" on a hoarding was guilty of misconduct. It was in accordance with his instructions that he need not trouble the Committee with an argument that rule 7 ought to be read as if the words "at any premises" followed the word "use."

THE CHAIRMAN announced that there would be no decision that day. The Committee would take time, and probably considerable time, to decide what its view was, and would have to summon another meeting of the Statutory Committee to announce it.



A VISIT TO BASLE

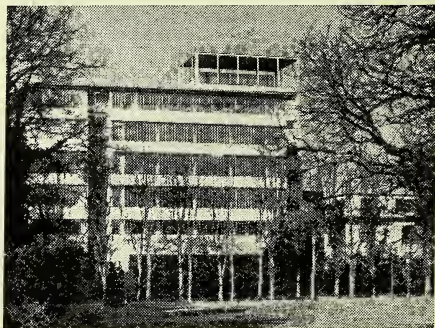
MANY pharmacists, previously unable through wartime difficulties to take a real holiday, realised their ambitions this year by visiting the wonderland of Switzerland, where goods of every kind are to be seen in the shop windows, which, moreover, are brilliantly lit at night.

At Basle I spent a day touring the Hoffmann-La Roche Chemical Works, including the company's chemical research and pharmacological institutes and pharmaceutical and production laboratories.

Founded in 1896, the organisation had by 1939 developed into sixteen separate companies making Roche products in many different parts of the world, with 6,000 employees, 1,300 of them at Basle. The facade of the main building is of white marble from the Jura Mountains. A magnificent reception hall contains rare tropical plants. A hall on the ground floor constitutes a museum of old pharmaceutical relics and historical portraits, together with priceless ancient specie jars. A modern lecture theatre, seating 200-300 persons, is used for lectures to technical staffs and to medical, dental and pharmaceutical students. In the recently rebuilt research institute are many floors of laboratories, each equipped with every modern device. The institute of pharmacology and experimental medicine is close by. In one laboratory workers were investigating the physiological action of pantothenic acid compounds. Deficiency was manifested in rats in one of several ways: Loss of hair

from backs; greying of the hair of black rats; blood-caked whiskers; and blindness. With pantothenic acid restored to the diet, the rats quickly recovered from these untoward effects.

In the pharmaceutical laboratories large quantities of ampoules are packed daily by machine, while the department concerned with tableting contains a number of the latest rotary tablet machines. Even the boiler house was, like the other departments, white inside and out, with enormous plate-glass windows.—S. E. G.



Pharmaceutical Laboratories of Hoffman-La Roche Chemical Works, Basle, Switzerland.

Top of page, left: Administration buildings, showing entrance hall (under large windows) and lecture hall to right of picture. Right: Interior of one of the manufacturing plants.

PHARMACY AND THE PHARMACIST IN AMERICA AND CANADA

By T. Heseltine, M.P.S.

BEFORE visiting the United States and Canada I was often informed that I would find pharmacy and pharmacists vastly different from those in Great Britain. I certainly found them very differently housed, but the pharmacy department and pharmacist were very similar to our own.

Certainly in the modern drug store in North America one can get a good meal, almost any soft drink at the soda fountain, jewellery, cigarettes, cigars, handbags, alarm clocks, Scotch whisky, gin, vodka, toilet goods, French perfumes, peanuts, radio sets, gramophones, etc., etc., but a modern pharmaceutical department is always there. I found the pharmacy departments to be very well equipped, and the pharmacist, though usually busy, a very pleasant fellow, eager alike to tell of the conditions in American pharmacies and to inquire about the position in Great Britain. I discovered that, like the average British pharmacist, he was full of complaints about his position—underpaid (the average salary for a qualified man is £20 per week), status all wrong, overworked, etc., but I also found that he had no one to whom he could take his troubles. In other words, American and Canadian pharmacists are badly organised and would welcome such institutions as the National Pharmaceutical Union, Chemists' Friends Association, Proprietary Articles Trade Association, Joint Industrial Council, Chemists' Defence Association, Business Purchase and Guarantee Fund, Chemists' Sickness and Provident Society, etc., in addition to their own brand of Pharmaceutical Society.

Working Hours

In the large cities, pharmacies are open until midnight, the staff working in shifts from 8 a.m. to 4 p.m. and 4 p.m. to midnight. They have the usual complaints about doctors' dispensing, and are watching with interest the advent of socialised medicine in Great Britain. The average cost of a bottle of medicine dispensed in America is 6s.—and the pharmacist there takes a poor view of the valuation of our services in that respect. Realising that the spotlight is on pharmaceutical education and apprenticeship in Great Britain, I gathered a little data on the American system. The educational requirements were four years at college, terminating in a B.Sc. degree. The

curriculum is specific, with emphasis on chemistry and pharmacology. Chemistry courses include the study of chemistry through organic, but not physical chemistry. Physiological chemistry is studied and, as in this country, the college must be approved. Many pharmacists in the U.S.A. obtain a Ph.D. in chemistry, and claim that such a degree is comparable to any other doctorate as to academic requirements. Like our own counterparts, these men usually specialise in laboratory work.

Internships and Apprenticeships

Instead of an apprenticeship system, a system of "interning" is in effect in the U.S.A. After the college degree is obtained, the student spends a year working as an "intern" in a drug store. In most instances, interns work as drug clerks during this period of internship. They compound prescriptions under the direct supervision of a licensed pharmacist. They also sell merchandise and learn practical operating procedures. A pharmacist may have any number of apprentices at the same time. An intern earns £10 15s. per week.

The intern system is for students who wish to become licensed pharmacists. Legal requirements make possible the use of apprentices also. In New York State anyone over sixteen years of age with a high school education may apply to the State Board for an apprentice's licence, for which a dollar fee is asked. The apprentices may compound prescriptions and sell all types of pharmaceuticals. However, the pharmacist under whose supervision they are is legally responsible for their work, and can be held liable for mistakes which the apprentices happen to make.

Licences

Upon the completion of the period of internship, an examination is taken. Sponsored by the State Boards of each State, these examinations include both theoretical and practical subjects. If these examinations are passed, the candidate is given a licence to practice in the State which granted the licence. Most States have reciprocal agreements, but where reciprocity is not in effect, the pharmacist must take the examinations of the State in which he wishes to practise. A similar system of examination is in effect for physicians.

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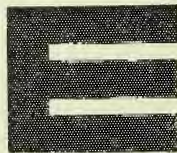
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VOL. CXLVIII OCTOBER 25, 1947 NO. 3531

Sulphonamides For External Use

The proposed exemption in the draft Poisons Rules (*C. & D.*, October 18, p. 486) of ointments and surgical dressings containing sulphonamides from the Fourth Schedule will be helpful to dispensing chemists supplying such articles. This welcome relief could be extended with advantage to all preparations containing Schedule 4 poisons and either (a) incapable of internal use, or (b) unlikely to be taken internally.

A case in point is stated by Mr. D. W. A. Mitchell in "The Optician" for June 11. Mr. Mitchell points out that it is customary at the London Refraction Hospital in the "Contact Lens Course" to use local anæsthetics in moulding, and in some cases to instil, into the eye, drops of a solution of sodium sulphacetamide. A supply of Albucid eye drops was, on the advice of the Pharmaceutical Society, refused by a chemist to an optician who had taken this course. Mr. Mitchell, who was under the impression that such supply came within the exemption under Section 20 of the Pharmacy and Poisons Act, 1933, took up the matter with the Pharmaceutical Society, pointing out that opticians do use sulphonamides in certain circumstances (as in contact lens work and after the removal of foreign bodies). Permission was given by the secretary of the Pharmaceutical Society to publish, in the optical Press, the secretary's reply, which includes the following statement:—

As a result of the information con-

tained in your letter regarding the use of sodium sulphacetamide, we are of opinion that a pharmacist or other authorised seller of poison would be in order in supplying an optician with a Fourth Schedule poison for use by the optician after the removal of a foreign body or after moulding or fitting contact lenses.

We consider supplies under these circumstances could be considered as exempted transactions coming within Section 20 of the Pharmacy and Poisons Act, 1933.

We would add, however, that an optician would not in our opinion be entitled to be supplied with Fourth Schedule poisons for general ophthalmic treatment and we think that the optician should, when applying to a pharmacist for supplies of sodium sulphacetamide, explain to the pharmacist the precise purpose or purposes for which the drug is required, so that the pharmacist may be in a position to judge whether or not the transaction can be regarded as an exempted one within the meaning of Section 20.

An Oversight Corrected

Exemption of sulphonamides from the Fourth Schedule in preparations intended solely for external use would avoid this roundabout supply under Section 20, which requires the pharmacist to question the status of the optician. The provisions attaching to First Schedule poisons still apply, and these provide proper safeguards. Paragraph 2 of the draft Poisons Rules is new, and corrects an oversight as regards Schedule 4 poisons for external use. Poison Rule 12 (3) (e) as amended will read:—

(e) indicate the total amount of the medicine to be supplied and, *except in the case of a preparation which can only be used for external treatment,* the dose to be taken.

The added words in italics legalise Fourth Schedule prescriptions for external-use preparations issued without directions as to dosage. Since it is evident that such medicines are unlikely to be used by drug addicts, there is every reason to exempt all such prescriptions (i.e., for external preparations) from provisions of the Fourth Schedule.

A Way To Gain Hard Currency

So much has been made of the loss, through war-time exigencies, of British overseas investments, that other ways in which the national prosperity can be "invisibly" promoted have tended to be overlooked. One such method—not a new one by any means, but a method that might be adopted by many industrialists who so far have not done so—was outlined by a spokesman of the British Export Trade Research Organisation recently (see p. 493). Briefly, the scheme consists of exporting a manufacturer's "know-how," usually on a royalty basis, but if need be for a lump sum.

It is important to realise that "know-how" is not a vague or meaningless term but has, in fact, a precise connotation and a considerable cash value. Its disposal in an overseas market involves, for a patented article, three things:—

1. A licence to work the patent, with training for foremen and workmen if necessary.

2. Full information of the plant or machinery used, together with, if necessary, actual machinery or jigs and tools, but at the very least the working drawings for preparing the machinery.

3. For a few years (almost certainly) an undertaking to supply vital parts of the invention or patent.

The obvious advantage of exporting "know-how" at the present time is, of course, that every dollar raised in this way is in the nature of a windfall, providing invaluable assistance at a most critical time. Objections have been raised on both sides of the Atlantic, and it is important to decide (a) whether the objections are valid and (b) whether they are not outweighed by other considerations. From the United States the charge has been levelled that the procedure advocated would constitute or encourage violations of anti-Trust legislation in operation in that country. By way of rejoinder it may be pointed out that, while the difficulty is one to be investigated, many "know-how" agreements in force in both directions between this country and America are of long standing, proving that the obstacles are capable of being overcome. In Britain the more serious charge is brought that, in disposing of their "know-

how," British manufacturers would be "selling their rights for a mess of pottage." Foreign firms put in possession of British trade secrets will, it is argued, be able in a very short time to overtake their British competitors and to put them wholly or partly out of business. That eventuality will be avoided provided two safeguards are insisted upon. First, if the articles themselves are capable of being made and exported, then the secrets of "know-how" must be kept in Britain. Secondly, there must be in every contract a clause or clauses delimiting the territories in which the "know-how" is to be exploited by the overseas licensee and excluding not only the British home market but any others that can quite easily be supplied from Britain.

Within these limits the scheme is recommended to manufacturers in the drug and chemical industries to examine and explore. In cases of doubt B.E.T.R.O. is holding itself out to give advice on whether a patent process or manufacture is a suitable subject for a "know-how" agreement, and to pass on requests by overseas manufacturers for information about processes in particular fields. THE CHEMIST AND DRUGGIST will, it is understood, be one of the channels through which the requests are to be made known.

FIFTY YEARS AGO

Professor H. E. Armstrong in
New York

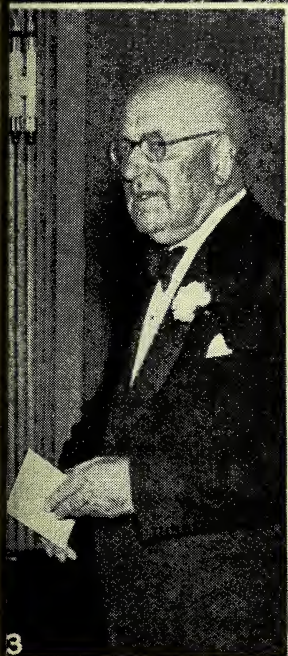
(From the *C. & D.*, October 23, 1897)

PROFESSOR ARMSTRONG took as the theme of his remarks the methods of education in chemistry. He said that lecturing was the abomination of the present method of teaching chemistry. The methods in all other lines of instruction had changed, but in chemistry practically the same methods prevailed now which were introduced by Berzelius. It had become necessary to make a radical change and adopt more natural methods, such as that termed the "heuristic" method, which Professor Armstrong defined as the teaching of students to find out things for themselves. Destroy all the text-books, said he, and show the pupil how to learn for himself instead of teaching him things. He then proceeded to give two illustrations of the first lessons in chemistry by this method.



At the P.D.A. ANNUAL DINNER

1. The president of the Association (Mr. Harold L. Warner, M.P.S., Wolverhampton) with Mrs. Warner.
2. Mr. Hugh N. Linstead, O.B.E., M.P., Ph.C., and Mrs. Linstead.
3. Mr. Wallace E. Heaton, Ph.C., an ex-president.
4. The guest of honour (Mr. J. Arthur Rank) in conversation with the president.



THE annual dinner-dance of the Photographic Dealers' Association was held in London on October 8, when the guest of honour was Mr. J. Arthur Rank. During the evening a certificate was

presented to Mr. G. Denham, winner of the Association's photographic competition.

PHARMACEUTICAL SOCIETY OF IRELAND

Seventy-second Annual Meeting

At the seventy-second annual meeting of the Pharmaceutical Society of Ireland, held in Dublin on October 13, Mr. J. K. Whelehan (president) was in the chair. The following outgoing members of the Council were declared re-elected for the next three years: Messrs. F. X. Meagher, P. Fullam, P. F. McGrath, G. C. O'Neill, N. A. P. McKane, and M. Power. Mr. B. C. Sullivan was also declared elected to fill a seventh vacancy created by Mr J. D. Blair's decision not to seek re-election. A telegram of good wishes was received from Mr. Fred Storey, Belfast.

President's Report

THE PRESIDENT, in the course of his address, said the figures for 1947 continued the trend of the past decade with the possible exception of preliminary registration which had, as anticipated, shown a marked decline at sixty-seven, a decrease on 1946 of 161. He was confident that the intake figure would increase progressively for the next few years and it should eventually stabilise itself at about 150, which the profession should be able comfortably to absorb. He hoped the 1946 figure of 230 entries would never again be reached. Secondary schools were beginning to include physics and chemistry as standard subjects in their curricula.

The number of pharmaceutical chemists on the register was 1,736 (against 1,681 in 1946) while membership had increased by twenty-three to 899. There were on the register 729 pharmaceutical chemists who were not members of the Society. Post-graduate contact with the Society was encouraged by the Council and in future years the services rendered by the registrar and the college staff might represent greater monetary value than was represented by the annual membership fee. There was one chemist and druggist on the register (no change) while registered druggists totalled 417 (an increase of one). Of 417 names on the register of druggists, seventy-three had since qualified as pharmaceutical chemists. Of the 344 registered druggists only forty-six (12½ per cent.) were associate druggists.

The Council hoped that the number of the associates would increase. The percentage examination success of students was 37.2 per cent. (against 32.4 per cent. in 1946); greater liaison between the examiners and the college staff might prove helpful in bringing the figure up to that in other professions.

Mr. Whelehan went on to suggest that the Executive Committee of the Irish Drug Association should meet a subcommittee of the Council to work out an agreed scale of charges for professional work. After discussions with the Educational Advisory Council headed by Professor O'Rahilly, draft education scheme was under consideration. When Professor Bayley-Butler's report came to hand, the subcommittee dealing with the matter would submit a draft composite scheme to the Council for consideration. The pass lists in recent examinations showed that a majority of the candidates needed more than one year's full academic training, and there was a demand for post-graduate part-time courses of aseptic dispensing, urine analysis and blood counts. The registrar and Professor Timoney had carried on informal conversation with Dr. Meenan on the possibility of inaugurating such a post-graduate course. Dr. Meenan had been enthusiastic and had promised to submit a suitable syllabus. The widening of the field from which pharmaceutical materials were drawn increased the opportunities for pharmacists and involve acceptance of a progressive educational policy. The Council had seconded Professor Timiney to the science faculty of University College, Dublin, and it was hoped that in the summer recess of 1948 it would be possible to afford him an opportunity of visiting some of the foremost pharmaceutical laboratories abroad.

Continuing, Mr. Whelehan urged that changing conditions in pharmacy made necessary the adoption of a code of ethics. He then deplored the practice of doctor who prescribed orally to their patients and suggested the Medical Association of Ireland should be approached. The Society had kept a close watch on the Health Bill and Mr. Frank Loughman had ably put the Society's point of view in the Dail. He hoped that the sale of purgatives, cathartics and laxatives would be confined to pharmacists. Discussions with the Veterinary Association of Ireland were continuing satisfactorily and should lead to the fullest co-operation between the professions. A deputation to the Minister of Health had discussed the position of public pharmacists and Mr. Whelehan had urged that the Pharmacy Acts should be rigidly observed in all public institutions.

As a result of conversations with the Minister of Defence a permanent establish-

ment of one commandant and four captains, with special rates of pay, had been created for pharmacists in the Defence Forces.

Mr. Whelehan then paid a tribute to Mr. D. Blair, who had resigned from the Council, and welcomed a new member, Mr. B. O'Sullivan. After wishing Mr. J. J. Kerr happiness in his retirement, he introduced the new registrar (Mr. J. G. Coleman). In concluding, THE PRESIDENT paid tributes to the staff of the Society's College and headquarters, and to Mrs. Pike (née Hyland) who had been of great help by remaining voluntarily with the Society during the change of registrars.

Mr. P. McAULIFFE proposed the adoption of the president's address. MR. SEAMUS MURPHY, seconding, said that if the campaign laid down by the president were to succeed, a drive was needed to enrol more licentiates as members of the Society. The idea of sending Professor Timoney abroad to get experience in London and Continental laboratories was sound as the Society's curriculum today was far behind modern advances.

MR. D. KENNELLY, Dalkey, said the existing system of apprenticeship was out of date; students should spend two or three years attending the Society's college, and then do one year's practical work. The Society could not carry out big schemes of educational reform without larger premises. MR. MARTIN RYAN said it was desirable to encourage brilliant students through scholarships to do post-graduate study outside Eire. The president's address was unanimously adopted.

Treasurer's Report

MR. JOHN GLEESON (treasurer), presenting his report, said that total income showed a slight decrease, compared with 1946. There has been a decrease of £659 in income from preliminary registration fees (£277 against £936), but a large income from preliminary registration had never been regarded as good for the Society or its members. Schools receipts (£166 against £287) showed a decrease of £121 due to increased costs (e.g. professors' fees, drugs, etc.). The Council had increased the fees in all the schools of the College and the 1948 revenue account should show an improvement. Members' subscriptions at £1,397—an all-time record—showed an increase of £93.

Other items of revenue were: Examination fees, £888 (an increase of £340), registration fees, £1,140 (an increase of

£293), income from investments, £352 (an increase of £17).

Expenditure:—Expenses, £3,508 (against £3,078). Outstanding increases were printing and stationery, light and fuel, and journals. Provision also had to be made for a pension of £500 per annum for the retired registrar. In asking members for a further 10s. 6d. (making the annual subscription £2 2s.) and in increasing examination and college fees, the treasurer trusted that members were satisfied that he had tried to place the burden of the increased liabilities fairly. The treasurer then presented his balance sheet, which showed a surplus for the year of £707 14s.

MR. F. J. ROCHE, moving the adoption of the treasurer's report, said that students who had paid class fees three months ago and were now being asked to pay additional fees felt they had a grievance. MR. P. FAHEY, seconding, said he was sure members were willing to pay the extra subscription. The report was adopted.

Benevolent Fund

MR. GLEESON, reporting on the Benevolent Fund, said income for the year had amounted to £737, of which £440 had been presented by the dance committee, which, under Mr. Tim Gleeson's leadership, had done invaluable work. Subscriptions at £163 showed an increase of about £130, due almost entirely to a member who preferred to remain anonymous. A total of sixty-nine grants had been made at a cost of £362 (an increase of £58). The grants ranged from amounts of £2, £3 and £5 to one of £51, and had been made to deserving cases. Mr. Gleeson appealed for more generous support for the fund to help the work of relieving distressed members of the profession.

MR. P. G. REDMOND, moving the adoption of the report, said expenses for the coming dance would be much higher; he hoped there would be the biggest possible attendance. MR. J. BRIDGEMAN seconded.

MR. R. DALY, Cork, said the Fund was something members should be proud of. MR. SEAMUS MURPHY thought dinners might be held in Cork and Limerick in aid of the Benevolent Fund.

Spiv Scripts.—The Spiv is not equal to everything. Drug peddling is almost dead, but he will sell you a sheaf of forged doctors' prescriptions for medicinal drugs, which is nearly the same thing.—From a "profile" in the "Observer."

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

At the October meeting of the Council of the Pharmaceutical Society of Northern Ireland, held in Belfast on October 17, Mr. John McGregor (vice-president) was in the chair. Also present were Messrs. H. H. Cowzer (treasurer), H. F. Moore, F. R. Moore, J.P., W. H. Boyd, Walter C. Tate, P. R. W. Shinner, James McDowell, C. Abernethy, H. W. Gamble, Professor E. B. C. Mayrs and Mr. William Gorman (secretary). An apology for absence was received from Mr. James Glendinning.

Druggists' Representation

A letter was received from Mr. T. Nelson, the remaining druggists' representative on the Council, stating that owing to his inability to attend meetings he was compelled to tender his resignation. Mr. J. Irwin, the other druggists' representative, who retired recently, also wrote expressing regret at severing his connection with the Council. It was decided that the co-option of a druggists' representative and of a member in place of Mr. J. E. Connor, J.P., who also retired recently, should be discussed at the November meeting of the Council. Mr. Connor, in a letter, thanked the Council for tributes paid to him at the annual meeting of the Society.

THE VICE-PRESIDENT reported that, with the secretary, he had visited Enniskillen to consult local pharmacists on the provision of classes for pharmaceutical students in the locality. It was felt that the shortage of apprentices in the district would be eased if teachers of biology and zoology could be found for the Enniskillen Technical School, which was willing to help with the other subjects. Mr. McGregor thought the Ministry of Education might be approached to help provide a teacher in biology and zoology; the teacher could also be available for the technical school at Omagh. He added that a request for a grant from the Society would be made by the Enniskillen school.

A letter was received from the registrar of the South African Pharmacy Board acknowledging a formal request from the Society for the establishment of reciprocity between the two bodies and stating that the matter would shortly be considered by the Board.

It was decided to admit to the register Mr. Charles W. Young, 24 Lowwood Park, Belfast, a member of the Pharmaceutical

Society of Great Britain, who had fulfilled the necessary formalities under the reciprocity agreement. Discussing a request from Mr. W. W. Burns, a member of the Northern Ireland Society, for membership of the Pharmaceutical Society of Great Britain in order to open a business in the Channel Islands, THE SECRETARY explained that, for Mr. Burns to be granted reciprocity, three months' residence qualification in Great Britain was necessary, but under the agreement, the Channel Islands and the Isle of Man were not named. The secretary of the Pharmaceutical Society of Great Britain, however, had suggested that, if the Northern Ireland Society concurred, the agreement might be modified to cover the point. On the motion of MR. BOYD, seconded by MR. H. F. MOORE, it was decided that concurrence should be signified.

It was stated that the Society's final examinations would be held in Belfast in week commencing December 1. Certificates of apprenticeship were granted to: Ellen Eastwood, Cookstown, Monica T. Gallagher, Omagh, John F. Henry, Cloughmills, William H. Stewart, Belfast, and Patrick J. McMullan, Ballycastle, who had submitted the senior certificate of the Ministry of Education; and Brendan McMullan, Ballynahinch, who had submitted London University matriculation.

Finance Committee

The minutes of the Finance Committee were passed on the motion of Messrs. COWZER and H. F. MOORE. The receipt was reported of £9 6s. 3d., being two-thirds of fines imposed recently at Newry Petty Sessions on a conviction, which had been secured for offences under the Medicines, Pharmacy and Poisons Act, 1945.

MR. GAMBLE said that a number of unqualified persons were entering the trade and asked whether the Statutory Committee could not exercise some supervision. He felt that members of the Society acting as superintendents for such persons might themselves be running risks. THE SECRETARY said the Statutory Committee would meet in November when the matter might be raised. It would be necessary at the next meeting of the Council to appoint a new member to the Statutory Committee.

The Council then proceeded to consider a number of points raised at the annual meeting (see *C. & D.*, October 18, p. 472) the first being a suggestion that, for the

benefit of single-handed chemists and assistants who might seek election, Council meetings should be held in the evening. It was agreed that the time of meeting was a matter for the Council to settle for the convenience of those, particularly country members, serving on it at any particular time. MR. GAMBLE also referred to a proposal that the Society should make some payment towards travelling expenses or extra fees of country students at the Belfast College of Technology. It was decided, on motion of MR. GAMBLE, seconded by MR. SHINNER, that the chairman of the Education Committee in charge of the College should be approached to see whether a reduced charge could be made to pharmaceutical students from the country.

* Repeat " Prescriptions

MR. TATE initiated a discussion on the proper interpretation to be put on "repeat" or "to be repeated" on doctors' prescriptions, and reference was made to a discussion of the subject in THE CHEMIST AND DRUGGIST (October 11, p. 445). It was decided that the secretary should try to seek an official ruling. MR. TATE said he objected to the onus being put on the chemist to supply dangerous drugs where prescriptions did not state explicitly the number of times to be repeated.

Election of President

The election to fill the vacant office of President was conducted by MR. WALTER C. TATE (senior past-president), who himself proposed the name of Mr. McGregor. MR. JAMES McDOWELL seconded and the motion was unanimously agreed. Investing MR. McGregor with the chain of office, MR. TATE said the presidency was the highest honour that could be bestowed by the profession and trade, and Mr. McGregor had doubly earned it, by his service on the Council, and by his service in other organisations devoted to the elevation of pharmacy. The way in which he had assumed the duties of president on the death of Mr. J. W. Gray had shown that the affairs of the Society would be in good hands and he could be assured of the continuing co-operation, loyalty and good wishes of the members.

In his reply, MR. MCGREGOR recalled that October was the anniversary of his entry into pharmacy. However much some might sigh for the old days, he said, the present trend towards standardisation and the complicated apparatus necessary for production had forced pharmacists to accept

the position that a wide range of pharmaceuticals could best be made on a manufacturing scale by pharmacists and chemists specialising in such work. At the same time there was always a big place for the pharmacist who adapted himself to modern conditions. As complex synthetic compounds became more and more prescribed it was the pharmacist's duty to keep up to date and be of assistance to the prescriber with advice, which would be much appreciated, on the properties, presentation and best method of administration of the newer drugs.

MR. H. H. COWZER, the retiring treasurer, was elected *Vice-president* on the motion of Messrs. MCGREGOR and ABERNETHY.

On a motion of MR. COWZER, seconded by MR. H. F. MOORE, Mr. P. R. W. Shinner was appointed *Treasurer*.

The following committees were appointed:—

Education Committee: Messrs. P. R. W. Shinner, J. McDowell, W. H. Boyd, Walter Tate and Professor E. B. C. Mayrs (one vacancy to be filled).

Law Committee: Messrs. H. F. Moore, P. R. W. Shinner, H. W. Gamble, J. McDowell and Dr. Heazley (one vacancy to be filled).

House Committee: Messrs. H. F. Moore, F. R. Moore, C. Abernethy, H. W. Gamble and W. P. Ewart (one vacancy to be filled).

General Purposes Committee: Messrs. H. F. Moore, H. Gamble, W. H. Boyd and C. Abernethy (one vacancy to be filled).

Finance Committee: Messrs. Walter C. Tate, P. R. W. Shinner, J. Glendinning, F. R. Moore, J. McDowell (one vacancy to be filled). The Society's solicitors and auditors were reappointed.

Ulster Arbitration Award. — The National Arbitration Tribunal (Northern Ireland) recently published its award in a dispute between a hospital and a member of the Associates' Section of the Ulster Chemists' Association employed as a pharmacist at the hospital. The Associates' Section had claimed that the member should be graded according to her hospital service, that retrospective payment should be made from April 1, 1946, and that she should be granted a further increase of £50 per annum as recommended in the second report of the Joint Negotiating Committee (Hospital Staffs) for England and Wales. The Tribunal ruled that the pharmacist should be paid at the rate of £415 per annum with effect from April 1, 1947, but that the rest of the claim had not been established.

BRITISH PHARMACEUTICAL CONFERENCE 1947

AUTHORS OF THE SCIENCE PAPERS

MISS SHEILA K. PARIS, co-author with Dr. H. O. J. Collier of "The Decline of



Pyrogenic Activity in Intravenous Solutions During Storage," studied at University College, Southampton, and from there took an external B.Sc. degree. On leaving college she joined Allen & Hanburys, Ltd., and her first work was on the mycology and assay of penicillin. With the development of

the company's pharmacological department, Miss Paris became an assistant to Dr. Collier.

MR. HAMED ABU-SHADY, B.Ph., obtained his degree from the School of Pharmacy, Cairo, Egypt, in June 1945, when he was also awarded, by the Egyptian Pharmaceutical Society, a gold medal and money prize for being the best student of the year; a gold medal in pharmacognosy; a third gold medal for obtaining the highest total marks during his period of study in the school; and the Mazloum



Bey's prize. In September 1945 he was appointed demonstrator in pharmacognosy at the School.

MISS W. G. KEEPE, B.Sc. (PHARM), Ph.C. is co-author with Professor Brindle of a paper on the hygroscopic capacity of commercial penicillin. Miss Keepe graduated B.Sc. (Pharm.) from Manchester University in 1946, and was awarded a Woolley scholarship in the same year. Miss Keepe has been awarded the Wellcome Pharmaceutical Research Fellowship for 1947-48.

MR. D. C. M. ADAMSON, F.R.I.C. (co-author of a paper on the analysis of papaveretum) is chief analyst of Roche Products,

Ltd., Welwyn Garden City. He commenced chemical work upon leaving school when he joined the laboratories of a firm at Greenwich, studying at evening classes. He next joined the staff of the War Department Chemist at Royal Arsenal, Woolwich, and in 1935 passed the examination for A.R.I.C. He joined the staff of Allen & Hanburys, Ltd., in 1937.

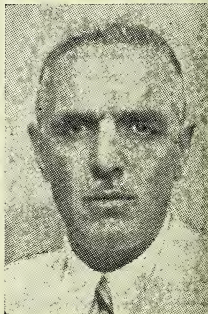
MR. J. W. LIGHTBOWN, M.Sc., Ph.C. who is co-author with Dr. K. Bullock of

a paper on the inactivation of enzymes and micro-organisms in oils and powders, is the son of a Blackburn pharmacist. He graduated B.Sc. at Manchester in 1939, and in the same year qualified as a pharmaceutical chemist, being awarded the Woolley Research Scholarship. In 1941, as a result of research carried out on the preservation of concentrated infusions, he graduated M.Sc., and was awarded the Wilde prize. He was demonstrator in pharmacy at Manchester University, 1941-46, and was appointed assistant lecturer in pharmacy in 1943.



PROFESSOR IBRAHIM RAGAB FAHMY graduated Ph.C. from the School of

Pharmacy, Egypt, in 1918. After managing a pharmacy for a year he was appointed demonstrator in pharmacy at the School of Medicine, Cairo. In 1921 he spent the summer term with Professor R. Wasicky, Vienna, where he studied pharmacognosy. He also spent one year with the late Professor H. G. Green-



ish in London, and three terms with the late Professor A. Tschirsch in Berne, Switzerland, where he was graduated Ph.D. In

January 1925 he returned to Egypt and was appointed assistant lecturer in pharmacognosy in the School of Medicine, Cairo. In 1927 he was promoted lecturer and in 1930 assistant professor. Since then he has been director of the pharmacognosy

department in the Faculty of Medicine, Fouad I University, Cairo, and, since 1940, Professor of Pharmacognosy. He is the secretary of the Pharmaceutical Society of Egypt and of the Egyptian Pharmacopœial Commission.

SCIENCE PAPERS

[Concluded from THE CHEMIST AND DRUGGIST, October 18, p. 483]

***Ammi Majus* Linn.: Pharmacognostical Study and Isolation of a Crystalline Constituent, Ammoidin**

By I. R. FAHMY AND H. ABU-SHADY

[ABSTRACT]

THE fruits of *Ammi majus* Linn. are commonly used by the public in Egypt in the powdered form for the treatment of leucoderma with promising clinical results. The powdered fruits are characterised by the polygonal papillosed cells of the epicarp, which are covered with a thick, markedly triated cuticle and containing small clusters and prisms of calcium oxalate; the endocarpal cells which exhibit a parquetry arrangement and are found usually adhering to the inner layer of the mesocarp, the cells of which have brownish thick but not pitted walls; occasional hardly lignified sclerenchymatous cells with pitted walls and the few reticulate parenchyma with small oval pits.

A crystalline bitter principle, ammoidin, $C_{14}H_{20}O_4$ (melting point 148° C.), has been isolated from the fruits of *Ammi majus*. Ammoidin occurs in long light prisms when crystallised from alcohol and ether. It is practically insoluble in cold water, sparingly soluble in boiling water, but freely soluble in chloroform. It is an unsaturated aromatic compound containing neither phenolic nor acetyl groups. The methoxyl test is positive but the substance contains no active hydrogen. (From the pharmacognosy department, Faculty of Medicine, Fouad I University, Cairo, Egypt.)

(The paper was read by Dr. Fahmy, who also replied to the discussion.)

Discussion

MR. BULL said that the paper which dealt with a drug on which there was previously no information bore evidence to the fact that there must exist in the British Commonwealth and the world many drugs which we ought to know.

DR. T. E. WALLIS said that it was a pleasure to have Dr. Fahmy in Britain

again. Dr. Fahmy, who had been a student at the College of the Pharmaceutical Society, was now a professor of pharmacognosy in Egypt. He had contributed a valuable note on a remedy for leucoderma, and his work would help those using the drug to get a more accurate dose. Were the stomata ranunculate ones?

DR. J. W. FAIRBAIRN stated that the paper underlined the suggestion that many countries contained untapped sources of natural drugs. Did the principle have the harmful effect of the crude drug? Had the authors tested to confirm that the crystals observed were of calcium oxalate? If the crystals proved to be another substance that fact would form a useful character in identifying the powder.

DR. FAHMY, replying, said that the stomata shown in the figures were of the fruits, and were surrounded by three or four cells of different sizes. Ammoidin had the same therapeutic effect as the crude drug, but the nausea was eliminated.

Mr. Santra read the paper on

Determination of Clove Stalk in Powdered Clove

By T. E. WALLIS AND D. K. SANTRA

[ABSTRACT]

THE object of the work was to compare the results obtained in determining the amount of clove stalk in powdered cloves by methods based on the content of volatile oil and crude fibre with the results obtained by microscopical methods based on the count and area of sclereids present in clove stalk. It is shown that a minimum standard for the content of volatile oil and a maximum standard for that of crude fibre are ineffectual to exclude quite large proportions of stalk from good samples of clove. The use of published average crude fibre values gives fairly accurate results for samples containing 20 per cent. or more of stalks. The crude fibre method, however, requires much more apparatus and more time than the microscopical method, and

does not differentiate stalk from other fibrous material. The microscopical method possesses the additional advantage that, since there are no sclereids in genuine clove, confusion between clove and its stalk cannot arise, as it always does when determinations are based on content of volatile oil or yield of crude fibre, both of which are present in both clove and its stalk. The average number of sclereids per mgm. of clove stalk has been determined as 1,067, and the average area of sclereids per mgm. as 593 sq. mm. The "area" method is recommended for samples containing very small amounts of stalk or when extreme accuracy is required. In view of the tediousness of area measurements, the use of counts of sclereids is recommended for general purposes. A standard of not more than 58 sclereids per mgm. of powdered clove is suggested as being suitable to exclude quantities greater than 5 per cent. of clove stalk in powdered clove. (From the pharmacognosy research laboratory, College of the Pharmaceutical Society.)

Discussion

MR. BULL, after commenting particularly on the painstaking nature of the paper, asked if there was any difference in chemical nature between the oil from clove stalk and that from the fruit.

DR. T. E. WALLIS said that the direct method of estimating clove stalk was to be preferred. Mr. Santra's perseverance and care was responsible for the rediscovery of the adulterant in lycopodium.

MR. J. M. ROWSON, Sunderland, suggested that a sclereid count would be better than an area figure. Were the two samples from known geographical areas, and were the figures as wide as possible? Had the authors any comments on the Schneider process? Could clove pollen cells or pollen mother cells be utilised in the estimation?

DR. FAIRBAIRN suggested that the sclereid limit should be set at 60 instead of 58.

MR. A. R. G. CHAMINGS asked if the adulteration of clove with clovestalk was increasing, and if the incidence of disease in Zanzibar clove trees had affected the quality of cloves.

MR. H. DEANE said that Zanzibar samples of clove were almost free from stem. The stem was being distilled in Zanzibar.

In reply, MR. SANTRA said that the Schneider process depended on counting tissue without lycopodium, and that it had limitations. The frequency of pollen cells

was not sufficient. Replying to Dr. Fairbairn, Mr. Santra said that the limit of 58 for sclereids was the calculated figure and equalled the highest number of sclereids to be expected (55), plus an allowance for the limit of accuracy (3 per cent.).

He had no information on the increase in stalk content, as old samples were used for the work. Zanzibar samples were the worst of those examined. He informed Mr. Bull that the eugenol content of fruit and stalk oils was the same, but the aromas were different.

Both parts of the next paper were taken before discussion. They were read by Dr. Bullock.

Enzymes and Micro-organisms in Oils and Powders

I. THE THERMOLABILITY OF LIPASE IN
POWDER FORM AND IN SUSPENSION IN OIL
BY KENNETH BULLOCK

[ABSTRACT]

LITTLE quantitative data appears to be available concerning the temperatures dried enzyme systems can withstand. It was considered of interest to investigate: The thermolability of a representative enzyme in powder, using different samples at equilibrium with different humidities and so possessing different moisture contents; how far the effectiveness of a process of dry heat sterilisation of powders depends on (a) the initial moisture content of the powder, and (b) the degree of freedom with which the moisture can escape from the powder; and how similar are the temperatures at which, under similar conditions, enzymes are inactivated and micro-organisms killed. In a different set of experiments, attempts are being made to count bacteria in suspension in oils with a view to studying their destruction by heat, and other means, in such a medium. It was considered possible that information might be obtained by suspending enzyme-containing powders of various moisture contents in oil, and studying the heat destruction of the enzyme when the temperature was raised, provided, of course, that an enzyme could be found which could be estimated accurately when in oily suspension. It became apparent that lipase was the only enzyme that would meet all the requirements. A method of estimating the lipase in powder form or in oily suspension is described, and it is shown that the thermolability of lipase in oily suspension varies with the moisture

content of the suspended powder. Destruction on heating for one hour may occur from 110° C. to 130° C.

2. EFFECTS OF DRYING ON VIABILITY OF BACTERIA; THEIR THERMOLABILITY IN POWDERS

BY KENNETH BULLOCK AND
J. W. LIGHTBOWN

[ABSTRACT]

A METHOD has been described for the preparation of powders containing known vegetative organisms or spores uniformly distributed, the viable counts of which can be approximately predetermined. Possible uses for these powders have been suggested. The spray drying of a suspension of vegetative bacteria—e.g. *Bacterium lactis aerogenes*—causes a reduction in the number of living organisms of approximately 99.9 per cent. while freeze drying causes a reduction of approximately 90 per cent. The mortality of vegetative bacteria during spray drying is probably due to the rapid removal of water although this does not cause disintegration of the cell or visible damage to the cell wall. Suspensions of the spores of *Bacillus subtilis* show only a small mortality on spray drying, 10 per cent. being killed with an air inlet temperature of 180° C. and an outlet temperature of 75° C. The thermolability of the vegetative bacteria is markedly increased when converted from liquid suspension to the dried state. Approximately 50 per cent. of the bacteria are killed in thirty seconds at 55° C. in liquid suspension while in the dried state about forty minutes' heating at 70° C. produces the same percentage mortality. The thermostability of the vegetative bacteria is less than that of certain enzymes; while that of the spores is approximately the same as the thermolability of the enzymes. The lower resistance of the vegetative cells to heat and drying when compared with spores, and the destruction of them by these causes, are possibly due to an alteration in the cell wall, perhaps in its permeability. The destruction of the spores on heating may take place as a result of the inactivation of the enzymes which the spores contain.

During storage of powders containing vegetative bacteria, the viable count falls logarithmically at a rate which is the same in a powder stored over phosphorus pentoxide as in a powder containing 7.2 per cent. water and stored in a humidity of 32 per cent. (From the department of pharmacy, University of Manchester.)

Discussion

DR. I. MICHAELS said counting technique with statistical treatment should have been adopted the authors. Without this method the authors were building on a weak foundation. Statistics enabled a limit of error to be assessed and this was fundamental. The authors' statement that 99 per cent. of organisms had been killed had, therefore, no meaning.

MR. T. D. WHITTET asked if the authors had tried yeast in their work?

PROFESSOR H. BERRY said that little was known about the fate of bacteria in fixed oils, and information was badly wanted. Former conclusions had been inaccurate as workers had not stated whether the bacteria or spores had been added wet, or dry (when a higher temperature for sterilisation is necessary). Workers had still to solve the question of whether a bacteriostat was required in fixed oils or not. He thought that a bacteriostat would be unnecessary.

The fact that little destruction of bacteria had been observed during spray drying was consistent with the normal pressure of 12 to 15 lb. used during the process. It was possible, however, to destroy greater numbers by increasing the pressure to 30 lb. or more. Other factors affecting the sterilising property of spray drying were the provision of a baffle, the distance of the baffle from the nozzle, and whether the baffle moved. By adjusting these factors suitably, streptococcal chains could be broken for counting purposes, etc.

Statistical methods provided many difficulties and he advised workers before attempting to employ these methods to ensure that the organisms used lend themselves to a count.

MR. R. MAXWELL SAVAGE said he could confirm the results of the workers in a different field—that of prothrombin. Spores possessed a coat resistant to steam but permeable to nutriment. Study of the mechanism opened a new field.

DR. BULLOCK, replying to Dr. Michaels, said he thought his scathing criticism was made in ignorance of the facts, as he had studied the methods which Dr. Michaels mentioned for five years. While recognising the importance of statistics, he did not worship at that shrine, and he still maintained that the figure 99 per cent. mortality had some meaning.

To Mr. Whittet, DR. BULLOCK said he had begun his work with yeasts but they were difficult to count and he had abandoned using them.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Oct. 22

REPORTS to hand this week indicate that all markets are transacting a minimum volume of business but, despite this generally quiet tone, values are fully maintained with a tendency in some directions to move to firmer conditions. Business in materials on spot on home trade account has been unimportant and while there is a fair amount of inquiry forward shippers' ideas of values preclude the booking of a good deal of business in this market. Hitherto import licences have been granted fairly freely for a good range of products but there are now signs of a return to war-time stringency in the issue of permits, particularly where the spending of dollars is involved. Consequently holders of supplies landed, afloat or for which a licence to import has already been granted are taking a stronger line and anticipate generally firmer conditions as the year runs out. The higher prices quoted at the sources support this view. A case in point is MENTHOL. It is now understood that no further licences to import from any source will be granted this year. There is, it is reported, a fair amount of material on spot, mostly Brazilian, but holders of these stocks are not anxious to do business; their quotations are firm and tend to advance. We are advised that next year licences will only be granted where the D.M.S. is given details of the transaction as regards importing and approves the name of the consumer and the purpose for which the goods are required. Continental buyers who have been returning to this market are now seemingly finding it difficult to place their orders here for goods tied to the dollar. They all seem to be in the same position as ourselves when it comes to obtaining their authorities' permission to spend dollars. For the time being, therefore, it seems that both importing and trans-shipment business to the Continent will be carried on under great difficulty and the volume of merchandise handled is likely to be somewhat limited.

U.S. Drug and Chemical Report

New York, October 17

EXPORTS of chemicals from the United States in July totalled \$15 millions compared with \$13.2 millions in June and \$6.4 millions in July 1946. SODA ASH and CAUSTIC SODA prices for less than carload lots have been increased by 10 to 35 cents per 100 lb. The numerous price advances in recent weeks have not brought about any improvement in the supply position of such industrial chemicals as BICROMATES, CHROMIC and OXALIC ACIDS, CALCIUM CHLORIDE and ALKALIS. Industrial grade XYLOL is now quoted by all manufacturers

at 25 cents per gallon, in tank cars; previously, some producers had been asking 22 cents. Although production of GLYCERIN rose by 4,192,000 lb. in August to 16,883,000 lb., stocks only increased by 1,282,000 lb. over the month. Factory consumption in August was 16,151,000 lb. as compared with 12,418,000 lb. in the previous month. Export licences for GLYCERIN are still exceedingly difficult to obtain. Dealers are generally asking 38 cents per lb. With domestic BOTANICAL DRUGS in short supply due to poor collections this year, and buyers' resistance to high prices demanded abroad, stronger conditions are expected in the market here. Particularly firm prices are noted for Indian items. However, more than 40 bales of BELLADONNA LEAVES reached New York from that country during the past week. The downward trend of the ESSENTIAL OILS and AROMATIC CHEMICALS markets was again in evidence last week after a short period of steadier markets.

Pharmaceutical Chemicals

AMIDOPYRINE.—In short supply. Quotations are maintained at from 53s. to 63s. per lb., according to quantity.

ASPIRIN.—Makers' prices per lb., for powder (containers in brackets), are as follows: 28 lb. and under 1 cwt., 4s. 4½d. (1-lb.), 4s. 3½d. (2-lb.), 4s. 3d. (4-lb.), 4s. 2d. (7-lb.), 4s. 1½d. (14-lb.), 4s. 0½d. (28-lb.). Net one month.

ATROPINE.—Home trade prices per oz. are as follows: ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s. 4 oz., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE and METHYLNITRATE 75s.

BARBITONE.—Quotations range from 45s. to 50s. per lb., according to quantity. SOLUBLE is available at the same prices.

CITRATES.—Makers' prices are steady. POTASSIUM, in quantities of 28 lb.-1 cwt. is quoted per lb. as follows (containers in brackets): 3s. 8½d. (1-lb.); 3s. 7d. (4-lb.); 3s. 6d. (7-lb.); 3s. 5½d. (14-lb.); 3s. 4½d. (28-lb.). FERRI ET AMMON. CIT., B.P., 4d. per lb. above. SODIUM B.P., 3d. per lb. below; POWDER, 1d. per lb. extra.

COBALT SALTS.—Makers quote BROMIDE at 16s. per lb. and IODIDE at 45s. per lb.

CREOSOTE.—B.P. quality, ex beechwood, quoted at from 7s. 6d. per lb. upwards.

CRESOL.—Controlled price of B.P. quality from distillers is 4s. 6d. per gall., ex sellers' premises.

GLYCEROPHOSPHATES. — Makers' rates per lb. for small quantities are as follows: SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent., 8s. 3d.; CALCIUM MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM

OLUBLE), 19s. 3d.; MANGANESE, 24s. 3d. POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 7d.; 75 per cent., 5s. 8d. Quantities 7 lb., 6d. per lb. lower than above rates.

HYPHOSPHITES.—Makers' rates per lb. for 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, 4s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d. **HYPOPHOSPHOROUS ACID** in quantities of 6 Winchester quarts, is 6s. 2d. per lb.

IODIDES.—Prices (per lb.) of minor iodides are as follows: AMMONIUM, B.P.C., 1lb., 15s. 9d. smalls, 16s. 3d.; ARSENIC (triiodide), B.P. 28s. 6d.; CADMIUM, B.P.C., 2s.; CALCIUM, B.P.C. 19s.; ETHYL, 28s.; IRON, B.P.C., 14s.; LEAD, B.P.C., powder, 8s.; LITHIUM, B.P.C., 20s. 3d.; STRONTIUM, B.P.C., 18s. 6d.; ZINC, B.P.C. 9s. 3d.; MERCURIC, B.P. 7-lb., 14s. 3d. smalls, 14s. 9d.; MERCURIOS, B.P.C., green or yellow, 7 lb., 18s. 6d.; smalls, 19s.

IODINE PREPARATIONS.—Current prices per lb., for the home trade, are as follows: POTASSIUM IODIDE, B.P.—1 cwt., 10s. 8d. SODIUM IODIDE, B.P.—28 lb., 11s. 8d. IODOFORM, B.P.—28 lb., powder, 15s. 1d. crystals, 17s. 1d. RESUBLIMED IODINE, B.P.—1 cwt., 12s. 5d. Orders of 28 lb. and upwards may be comprised of assorted preparations at schedule rates. Packages are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required within three months with rise and fall clauses. Special rebate of 4d. per lb. allowed on quantities of 5 cwt., in one delivery, or on contract for delivery within three months.

ISOPROPYL ALCOHOL.—Makers quote 15s. 3d. per gall. for small lots.

LACTATES.—Makers' quotations per lb. are as follows: CALCIUM, 2s. 3d. to 2s. 9d.; CALCIUM SODIUM, 3s. 3d. to 3s. 9d.; LACTIC ACID, 3s. to 3s. 4d.

LACTOSE.—Quotations are from £120 per ton upwards, according to quantity.

MAGNESIUM CARBONATE (B.P. LEVIS).—Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 6d. (1-lb.); 1s. 5d. (2-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 3d. (14-lb.); 1s. 2d. (28-lb.) per lb. Bulk quantities range from 94s. to 99s. per cwt. as to quantity, carriage paid.

MAGNESIUM CARBONATE (POND., B.P.).—Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 9d. (1-lb.); 1s. 8d. (2-lb.); 1s. 7½d. (4-lb.); 1s. 6½d. (7-lb.); 1s. 6d. (14-lb.); 1s. 5d. (28-lb.) per lb. Bulk quantities range from 121s. to 131s. per cwt., as to quantity, in 28-lb. packages, carriage paid.

MANDELIC ACID.—Current prices are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYLTHIONINE CHLORIDE.—Quotations are from 8s. 6d. to 10s. per lb., according to quantity.

MORPHINE.—Prices per oz. current in the home market are: ALKALOID, ½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. **HYDROCHLORIDE**, ½ oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., 42s. 9d.; 3 oz., 42s.; 4 oz., 41s. 9d.; **BIMECONATE** and **TARTRATE**, as ALKALOID; **ACETATE**, **HYDROBROMIDE** and **SULPHATE**, as **HYDROCHLORIDE**.

PANCREATIN.—Price of B.P. material is from 13s. 6d. upwards, as to quantity.

PARALDEHYDE.—Rates for B.P. material are as follows: 5 carboys, 1s. 5d. per lb.; 1 carboy, 1s. 6d.; 24 Winchester quarts, 1s. 7½d.; 17, 1s. 8½d.; 6, 1s. 10d.; 3, 1s. 11d. per lb.

PEPTONE.—Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENACETIN.—Firm. Quotations are from 5s. to 6s. per lb., according to quantity.

PHENAZONE.—In short supply. Quotations are from 32s. 6d. to 35s. per lb., as to quantity.

PHENOBARBITONE.—Quotations for the acid and the sodium salt are from 37s. 6d. to 40s. per lb., as to quantity.

PHENOL.—Maximum price for crystals in the home market is 11d. per lb. in 1-ton lots, packed in drums (returnable), delivered.

PHENOLPHTHALEIN.—Manufacturers' prices per lb. are as follows: 1-cwt. lots, 6s. 1d.; 28-lb., 6s. 3d.; 14-lb., 6s. 6d.; 7-lb., 6s. 9d.

QUININE SULPHATE.—Makers' quotations for B.P. are from 4s. to 4s. 9d. per oz.; research grade is offered at 12s. 6d. per oz.

RESORCIN.—In short supply. Current prices are from 10s. 6d. to 12s. 6d. per lb., according to quantity.

ROCHELLE SALT.—Current rates per cwt. are as follows: 1-cwt., 182s. 6d.; 5-cwt., 180s. **SEIDLITZ POWDER**, ordinary strength is quoted at 141s. 3d. for 1-cwt. and 139s. 3d. for 5-cwt.; extra strong, 1-cwt., 152s. 6d., 5-cwt., 150s. 6d.; double strength, 1-cwt., 159s., 5-cwt., 157s.

SALICYLATES.—Makers' prices per lb. (containers in brackets) for **SODIUM SALICYLATE**, current in the home market, are as follows: 28 lb. and under 1 cwt., 3s. 2d. (1-lb.); 3s. 1d. (2-lb.); 3s. 0½d. (4-lb.); 2s. 11½d. (7-lb.); 2s. 11d. (14-lb.); 2s. 10d. (28-lb.). Net one month.

SALICYLIC ACID.—Makers' prices per lb. for quantities of 28 lb. up to 1 cwt. (containers in brackets) are as follows: 2s. 8½d. (1-lb.); 2s. 7½d. (2-lb.); 2s. 7d. (4-lb.); 2s. 6d. (7-lb.); 2s. 5½d. (14-lb.); 2s. 4½d. (28-lb.). Net one month.

THEOBROMINE.—In short supply. Makers' prices per lb. are as follows: ALKALOID, from 39s. 6d. to 43s. 6d., according to quantity; CALCIUM SALICYLATE and SODIUM SALICYLATE, from 22s. 3d. to 26s. 3d.; SODIUM BENZOATE, from 24s. 9d. to 27s. 9d.

Crude Drugs

ACONITE.—Indian root is quoted unchanged from 375s. to 380s. per cwt., according to holder.

ALOES.—Cape, on the spot, is in very quiet demand at 170s. to 175s. per cwt.; for shipment, 145s., c.i.f. Curaçao, in boxes, is quoted at 235s. to 245s., spot; forward, 215s. to 220s., c.i.f. Socotrine is available at from 156s. to 190s. per cwt.

ANTIMONY.—Current rates are as follows: 99.6 per cent. regulus, £190 per ton, delivered; 99 per cent., £180; 70 per cent. crude, £150.

ASAFFETIDA.—Block on the spot is quoted from £25 to £28 per cwt., according to quality and seller.

BALSAMS.—Market fully steady but quiet. *Canada* is quoted at 17s. per lb., spot. *Pará Copaiba*, spot, 8s. per lb. for soluble and 7s. 3d. for insoluble. *Peru*, San Salvador, 6s. 9d. to 7s. per lb., duty paid. *Tolu* is quoted at 18s. per lb., spot.

BAY LEAVES.—Leaves without stems 88s. to 90s. per cwt., duty paid, quoted.

BENZOIN.—Sumatra is quoted at from £15 to £20 per cwt., spot, according to quality and seller.

BISMUTH.—Current price of high-grade metal is 11s. per lb. for quantities of 5 cwt.

BUCHU.—Values are unchanged. Short-round or oval leaves are quoted at 4s. 2d. to 4s. 3d. per lb., spot; shipment, 4s., c.i.f.

CALUMBA.—Natural unwashed root is quoted at 65s. per cwt.

CAMPHOR.—Market dull but steady. Chinese tablets (¼-oz.) quoted at 11s. 3d. to 11s. 6d. per lb.; refined powder (B.P.), 10s. 3d. to 10s. 6d.; Formosa (B.B.), 9s. 6d. to 10s.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude, 93-95 per cent., 7s. per lb.

CANTHARIDES.—Spot quotations for Chinese are 13s. 3d. to 14s. per lb., duty paid; for shipment, 7s., c.i.f.

CAPSTICUMS.—Quiet. East African, spot, steady at 120s. to 140s. per cwt., according to quality.

CARDAMOMS.—Prices are unchanged on the week; Mangalore: Half-bleached, A's, are quoted at 8s. 6d.; B's, 8s.; seeds, 7s. (nominal), spot. Aleppy seeds No. 1, offered at 7s. 9d.; Aleppy greens, 6s. 9d. per lb. spot.

CASCARA SAGRADA.—Quotations for 1946 crop, spot, are around 260s. per cwt., duty paid. American new-crop bark is at 250s. per cwt.

CASSIA PODS (*C. fistula*).—East Indian, quoted at 55s. to 60s. per cwt., ex wharf.

CHAMOMILES.—No importations of Belgian flowers are possible. A limited supply of Hungarian material is offered at 3s. per lb., duty paid, ex quay London.

CHAULMOOGRA.—*Hydnocarpus*, in tins in cases, is quoted at 1s. 10d. per lb., spot.

CHILLIES.—Mombasa, quoted at 16 per cwt., spot. Sierra Leone, 150s., nominal. Nigerian, 125s., spot; Japanese-type, 190s.

CLOVES.—Zanzibar, quoted at 10½d. per lb., spot. Penang, offered at 3s.

COCHINEAL.—Silver greys, quoted 4s. 3d. to 4s. 6d. per lb., spot; blacks, 5s.

COCOA BUTTER.—Maximum controlled price is 2s. 11d. per lb., delivered.

COD-LIVER OIL.—British-produced oil B.P. quality is quoted from 12s. to 1 per gall., delivered in the United Kingdom.

COLCHICUM.—Spot. Jugo-Slav corms are quoted at 9s. 9d. to 10s. per lb.

COLOCYNTH.—Quiet. Spot, fine-white offered at 2s. and medium-white quoted about 1s. 10½d. per lb.

DIGITALIS.—Nominal quotation for Portuguese leaves is 130s. per cwt.; English grown, 2s. 6d. per lb., quoted.

DRAGONS BLOOD.—Singapore reboiled No. 1 is at £80 to £85 per cwt., spot; second-grade material is available at £50.

ELEMI.—Manila No. 1 material, afloat, quoted at 2s. 3d. per lb., landed.

ERGOT.—Quoted at 4s. 9d. per lb., spot forward, 4s. 3d., c.i.f.

EUPHORBIIUM.—Spot quotations are from 85s. to 90s. per cwt.

GAMBOGE.—Siam pipe is quoted at £1 per cwt., duty paid, ex warehouse.

GENTIAN.—French natural root on the spot, 95s., quoted; cut, 130s. per cwt.

GINGER.—Jamaica No. 1 is quoted at 110s. per cwt., spot; No. 2 is quoted at 95s.; No. 3, 90s. Sierra Leone, on the spot is unchanged at 67s. 6d.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Kordofan cleaned sort quoted unchanged, market dull: 73s. per cwt., London or Liverpool; afloat, 70s. c.i.f.; shipment, 69s., c.i.f. Bleached No. 1, 145s., ex store. Talha, 42s. 6d. per cwt. spot; forward, 38s. 6d., c.i.f.

GUM MASTIC.—No. 1 is offered on the spot at 14s. per lb., duty paid.

HENBANE.—The official drug is offered at 4s. 6d. per lb. spot. Egyptian (*H. muticus*) is available on the spot at 105s. per cwt.

HENNA.—Egyptian is offered at 135s. per cwt., ex warehouse. Indian is quoted at 160s. per cwt., spot.

HYDRASTIS.—A firm market. Quotations are maintained at 60s. per lb., spot.

IPECACUANHA.—Market continues firm but quiet: Nicaraguan root on the spot is quoted at 28s. to 28s. 6d. per lb.; shipment 25s. 6d., c.i.f. Colombian, scarce on the spot is quoted at 27s. 6d.; shipment 24s., c.i.f.

JALAP.—Vera Cruz, spot offered at prices from 3s. 5d. to 4s. per lb., according to test.

JUNIPER.—Italian berries, quoted at from 56s. to 65s. per cwt., duty paid, according to quality.

MENTHOL.—After a fair amount of interest in this market buyers are finding conditions tending firmer with spot values likely to advance as the year draws to a close. The position is reviewed in the market review (p. 520). Prices are generally unchanged on the week, as follows: Brazilian material, spot, 50s. to 51s. per lb., duty paid; forward offers, 43s., c.i.f., buyers' licence. Chinese, in original cases, is quoted at 57s. 6d. to 60s. per lb., duty paid; forward quotations are around 60s. per lb., i.f.

SANDARAC.—Quotations are at 5s. 9d. per lb., ex store London.

SARSAPARILLA.—Jamaican, native red, quoted at 2s. 4d. per lb., spot. Forward quotations tend dearer.

SEEDS.—**ANISE.**—Quiet. Cyprus, 2s.; Turkish, 2s. per lb., duty paid, spot, London or Liverpool. **CARAWAY.**—Dutch quoted at 1s. 1d. per lb., duty paid, spot, London. **CELERY.**—Indian offered at 1s. 4d. per lb., spot, Liverpool. **CORIANDER.**—Market firm, Morocco, poor quality, offered at 7s. 6d., duty paid, spot, London. Argentine is offered in small lots at 50s., duty paid, London. English, nominal, 70s. per wt. **CUMIN.**—Market quiet. Indian offered at 225s., ex store, Hull. Cyprus old at 225s. per cwt., spot, London. **DILL.**—Indian, 45s., spot, London, and 42s. 6d. per cwt. quoted in Liverpool. **FENNEL.**—Indian offered at 75s. per cwt., spot, Liverpool; no business reported during the past week at this figure. **FENUGREEK.**—Indian quoted at 47s. 6d., spot, London, and 45s. per cwt., ex store, Liverpool.

SENEGA.—Sellers have been more inclined to meet the market with some offers at 12s. 3d. and others holding up to 12s. 9d. per lb. for spot material. New crop, December delivery, steady at 12s. per lb.

TAMARINDS.—Barbadoes is quoted at 52s. 6d. per cwt., duty paid.

TONKA BEANS.—Frosted Pará is quoted at 4s. 9d. per lb., spot.

WAXES.—Business remains quiet; quotations fully steady. Nominal quotation for Dar-es-Salaam BEES' on the spot is 385s. per cwt.; shipment, 365s., c.i.f., nominal. Lindi, spot, 360s., nominal. Benguela is quoted at 370s., duty paid; shipment, 305s., c.i.f., buyers' licence. **CANDELILLA.**—Steady. Spot is quoted at 425s. per cwt.; shipment, 395s., c.i.f. **CARNAUBA.**—Fatty grey is steady at 610s. per cwt., spot; parcels afloat are dearer at 530s., c.i.f.; for shipment, 510s., c.i.f. Prime yellow, spot, 800s. per cwt., shipment, 750s., c.i.f. **MONTAN.**—Steady. Reibeck is quoted at 390s. per cwt., spot; Czechoslovak crude, 325s., spot. **OURICURI.**—No change in prices. 9 per cent., on the spot, is quoted at 375s. per cwt.; shipment, 5 per cent., 385s., c.i.f.; 2 per cent., 400s., c.i.f.; 1 per cent., 410s., c.i.f.

Essential and Expressed Oils

CASSIA.—Spot quotations are from 15s. 9d. to 17s. per lb., as to quantity.

CITRONELLA.—Ceylon, spot, is valued at about 4s. 6d. to 5s. per lb.; Java, forward, quoted at about 7s. 6d., c.i.f.

CLOVE.—English-distilled bud oil is quoted unchanged at 11s. 6d. to 12s. per lb.

CORIANDER.—English-distilled, 250s. per lb., nominal quotation.

FENNEL.—Sweet oil is quoted at 17s. 6d. to 20s. per lb., on the spot.

GERANIUM.—Bourbon is quoted from 67s. 6d. to 75s. per lb., according to quantity and grade; shipment offers are at about 57s. 6d., c.i.f.

GINGER.—Prices are quoted from 75s. to 125s. per lb., according to grade.

GUAIACWOOD.—Spot quotations range from 16s. to 19s. per lb., according to quantity and seller.

JUNIPER BERRY.—Importers' quotations are from 30s. to 35s. per lb. English-distilled ranges from 50s. to 125s. per lb., according to quality and seller.

LAVANDIN.—Spot quotations are from 11s. 6d. to 13s. 6d. per lb.

LAVENDER.—French (38 to 40 per cent. esters) is quoted from 35s. to 40s. per lb. Spanish (spike), 10s. 6d. to 13s. per lb., spot.

LEMONGRASS.—Market values are unchanged on the week; spot supplies 6s. 9d. to 9s. per lb., according to quantity and seller. The shipment market is reported firmer.

NUTMEG.—Quotations for English distilled oil remain at 42s. to 47s. 6d. per lb.

OLIVE.—The price of edible, 1 per cent., to wholesalers is 51s. per gall. of 9 lb., in drums, ex store. Wholesalers' prices to retailers are as follows: In gall. loan cans, 58s. 9d. per gall.; in $\frac{1}{2}$ gall., 59s. 6d.; in quart loan containers, 60s. 4d. and in pint containers, 61s. 4d. per gall., all delivered.

PATCHOULI.—Seychelles is offering at 65s. to 80s., spot; to come forward, 60s.; Singapore is quoted 90s. to 120s. per lb., according to quantity and seller.

PENNYROYAL.—Spot quotations are unchanged at from 23s. to 25s. per lb.

ROSEMARY.—Spanish is valued at 7s. to 10s. 6d. per lb., according to seller and quantity.

SANDALWOOD.—English-distilled is quoted at 85s. to 90s. per lb., according to quantity.

SASSAFRAS.—Brazil, on the spot, is at 5s. 6d. to 7s. per lb., according to quantity.

THYME.—Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

YLANG YLANG.—Bourbon No. 1 is quoted at 90s. to 100s. per lb.; No. 2, 50s.; No. 3, 35s.

TRADE MARKS

- (From "The Trade Marks Journal," October 15)
- "TENAPOL"; for chemical substances being emulsifying agents for use in the manufacture of ointments or of ointment bases (1). By The Geigy Co., Ltd., National Buildings, Parsonage, Manchester, 3. 648,345 (Associated).
- "TERALENE"; for chemical products used in industry, science and photography, and adhesive substances used in industry, but not including bases for colours (1). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 648,393 (Associated).
- "AMANDOL"; for chemical products used in industry, but not for use as solvents in the manufacture of textile fabrics (1). By May & Baker, Ltd., Dagenham, Essex. B648,677 (Associated).
- "ROYAM"; for bicarbonate of soda (for industrial purposes) (1). By George Mayor & Co., Ltd., 8 Hatcham Park Road, London, S.E.14. 649,214 (Associated).
- "CIMCOOL"; for water-soluble chemical compounds, for use as cooling agents in forming, shaping and cutting operations (1). By The Cincinnati Milling Machine Co., 4701 Marburg Avenue, Cincinnati, Ohio, U.S.A. 649,227.
- "TEXTANT"; for chemical substances used in industry (1). By Ward, Blenkinsop & Co., Ltd., Brooklands, Wood Road, Halewood, Liverpool. 649,444.
- "DIA-BETOIDS" "DIA-BETTA"; for all goods (1). By Ricks, Ltd., 298 Cavendish Road, Balham, London, S.W.12. 649,751-52.
- "INVI"; for adhesives in the form of films, for use in repairing clothes and textile fabrics (1). By Gent's Chemical Products, Codner Gate, Codner, Derby. 650,181.
- "NOVON"; for synthetic resin plastics included in this Class for industrial purposes (1). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 650,574.
- "JALAN"; for chemical substances used in industry, science and photography; chemical substances, included in this Class, used in agriculture, horticulture and forestry; manures (natural and artificial), and starch for use in manufactures (1) for natural resins (2); for essential oils, starch for laundry purposes, and waxes included in this Class (3); for industrial oils and greases (other than edible oils and fats and essential oils), and waxes for use in manufactures (4). By James Laing Son & Co. (Manchester), Ltd., Ashburton Road, Trafford Park, Manchester. 650,626-29.
- "ADELON" "COPOLON"; for all goods (1). By May & Baker, Ltd., Dagenham, Essex. 651,425-26.
- "HATTIE CARNEGIE" in distinctive lettering; for toilet preparations (not medicated), cosmetics and perfumes (3). By Hattie Carnegie, Inc., 42 East 49th Street, New York, U.S.A. 643,289.
- "LADY FAYRE"; for cosmetic powder boxes (3). By Kirwan & Co., Ltd., Ely House, 13 Charterhouse Street, Hatton Garden, London, E.C.1. 648,780.
- "JEUX D'AMOUR"; for non-medicated toilet preparations, cosmetics, perfumes, soaps, essential oils, hair lotions and dentifrices (3). By Parfums Zofaly, 59 Rue Galilee, Paris, France. 649,321.

- "PROTEX"; for non-saponaceous hair tonics (3). By W. & A. Coldham, 20 Wensum Street and 165 Waterloo Road, Norwich. 640,122.
- "IONETTE"; for utensils included in this Class for applying toilet preparations (3). By O One Nine Four Products, Ltd., Byron House, 7-9 St. James's Street, London, S.W.1. 648,982.
- "STA-RINSE"; for toilet preparations (not medicated) for hair rinsing (3). By Stablond Laboratories, Ltd., 128-34 Baker Street, London, W.1. B649,117 (Associated).
- "TEINTEGRAL"; for non-medicated toilet preparations, cosmetics, perfumes, perfumed soap, hair dyes and lotions (3). By Laboratoire Genty Société Anonyme, 48 bis, Boulevard Victor Hugo, Neuilly-sur-Seine, France. 649,618.
- "ATHENA" and head of Goddess; for non-medicated toilet preparations (3). By Shadforth Prescription Service, Ltd., Mitre Works, Cordova Road, Bow, London, E.3. 649,851.
- "SUNDEW" "SANWITE"; for bleaching preparations for laundry or domestic use, and cleaning and polishing preparations (3). By A. Ibbetson & Co., Ib-co Works, Great North Road, Stevenage, Herts. 650,314 and 650,318.

CORRESPONDENCE

Allan Bone Memorial Fund

SIR,—It is proposed to endow a bed in the Chislehurst, Orpington and Cray Valley Hospital to the memory of the late Mr. Allan Bone, M.P.S., who had been long associated with the hospital and who was always deeply concerned for its welfare. The sum raised will be used to purchase the bed and place a plaque over it, and the surplus will be invested in trustee stocks on behalf of the Fund, the yearly interest thereon being paid to the hospital. The Fund will exist in perpetuity, and will be administered by Martins Bank, Ltd., who, with Mrs. Bone, will act as the joint trustees (without fee). The names of donors will later be inscribed in a book, which will be presented to Mrs. Bone. Contributions to the Fund, which remains open until December 31, should be sent to the hon. treasurer (Mr. H. Monk, Martins Bank, Ltd., High Street, Chislehurst), or to the hon. organiser of the appeal (Mr. P. Ripley, Fairfax, Chislehurst). Cheques and postal orders should be crossed "Allan Bone Memorial Fund, Martins Bank." A box will be placed in the local branch of the bank for the use of those who wish to make donations in coin.

Yours faithfully,

W. W. PRING, M.P.S. (*Chairman, County of Kent Pharmaceutical Committee*), on behalf of seventeen signatories to the appeal.

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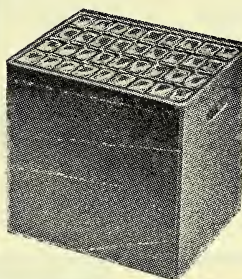


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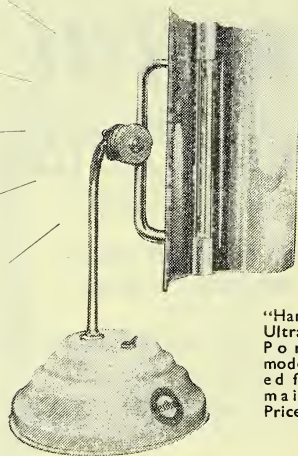
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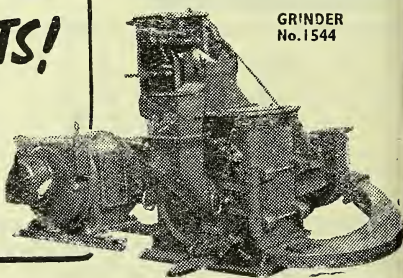


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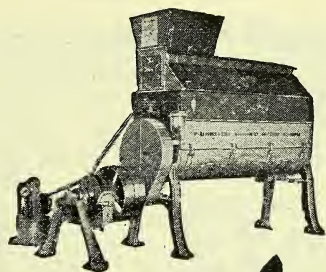
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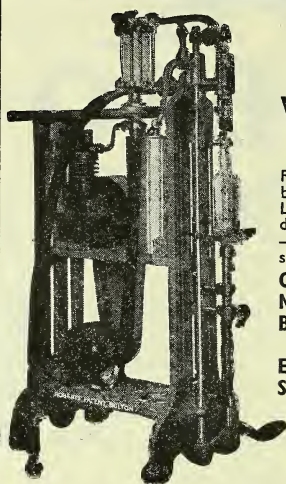
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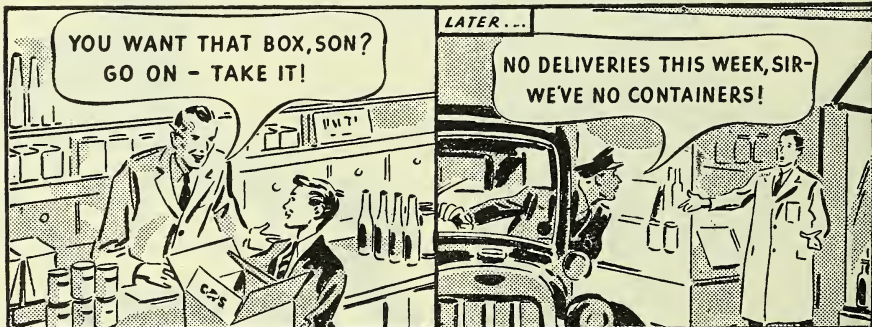
**Clean & Rapid
No Over Filling
Rejected
Easy to clean
Self Rinsing**

Write for
Particulars

Roberts' Patent Filling Machine Co. Ltd.
BOLTON, LANCASHIRE

Makers of every description of Bottle Fillings and Shallow Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED



Unless manufacturers have your returned containers, they can't give you the goods. So please don't give away containers, don't damage or destroy them—put them aside for the C.R.S. van to take back. Vans collect during normal deliveries. C.R.S. vans also make regular additional collections. Cash paid on the spot!

This is all you need to do :

- 1 Open C.R.S. wood and fibreboard cases carefully to avoid damaging tops and sides.
- 2 Fold C.R.S. collapsible cartons FLAT—with flaps sticking OUT (otherwise flaps have to be untucked before re-use).
- 3 Store them out of harm's way until collection.

Keep supplies on the move—co-operate with
CONTAINER RECOVERY SERVICE

S.P.D. LIMITED
Unilever House,
Blackfriars, London, E.C.4



SURGICAL DRESSINGS

Lints · Bandages
Plaster Muslin · Cotton Wool
Maternity Pads · Gauze

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OF DARWEN

HODDLESDEN MILL · ATLANTIC MILL · HAMPDEN MILL · SPOTLAND BRIDGE MILL

Your reputation
will advance by
leaps & bounds
if you prescribe



OINTMENTS
POWDERS
LOTIONS

for all foot troubles

NAVANO PREPARATIONS LTD

9, WESTMORLAND AVE., BLACKPOOL

As advertised in the public press

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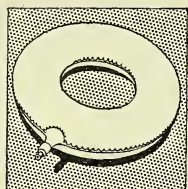
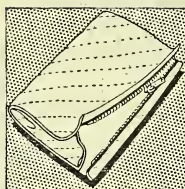
**SANITARY
TOWELS**

for
Perfect Reliability

NON CHAFING
HIGHLY ABSORBENT
In various sizes

WILFRED STRETCH & CO.
LIMITED

CASTLETON · ROCHDALE



R *zip pochette*
rubber air ring
baby bag
arcular toilet bag
cot sheeting

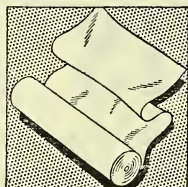
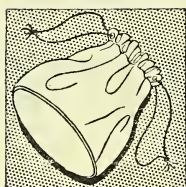


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The LI-L● Products illustrated are all chosen from an extensive range of best selling Surgical sundries. These long established favourites, and the late additions to the LI-L● list, are rapidly gaining widespread success.

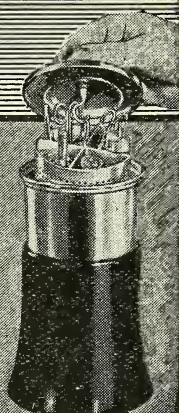
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P. B. COW & CO., LTD.. ESTABLISHED 183
12, HAY HILL, BERKELEY SQ., LONDON, W.
TEL.: REGENT 7401 (10 LINES)



- ★ Electric and Non-Electric Sterilizers.
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Obtainable through all
Dealers and Retailers
Write for Descriptive
Leaflets



'Surqualet'
the most modern
Electric Sterilizer

MANUFACTURED BY

Surgical Equipment Supplies Ltd

WESTFIELDS ROAD, LONDON, W.3.

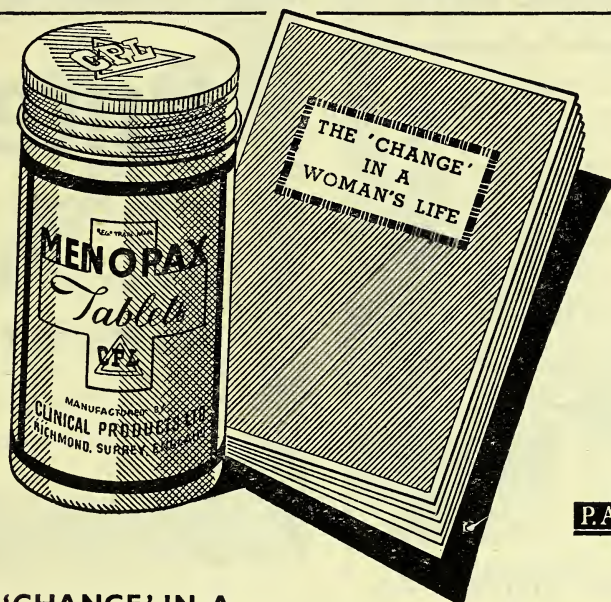
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BRANNAN
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THERMOMETERS
Clinical: Household: Industrial: etc

MADE IN ENGLAND BY
S. BRANNAN & SONS LTD
London and Cumberland

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"THE 'CHANGE' IN A WOMAN'S LIFE"

now in its 21st edition, has an immense appeal to women of 40-50, for it throws a new light on the Menopause, a subject which is of vital interest to them.

It is probably one of the most informative publications on the subject and promotes sales of Menopax.

RETAILERS who are co-operative appreciate the value of the book from experience.

THE ENTERPRISING CHEMIST will always have a few copies prominently displayed, so that interested customers may take one.

A WOMAN commencing a course of Menopax—very often on her doctor's advice—will in all probability continue to take this preparation for several years.

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MENOPAX

Manufactured by:

CLINICAL PRODUCTS LTD.



RICHMOND, SURREY

IT'S GOING TO MAKE



SHAVING HISTORY

A razor that needs no new blades, no lather, no electricity . . . Just pick it up and apply it with a firm rocking movement over the face—and there you have it—a smooth, perfect shave. Something so entirely new that it'll be a real sensation with shavers everywhere . . . and produced by the famous firm of Wilkinson, which alone speaks for its quality and craftsmanship.

Price **40/-** Retail
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Wilkinson
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THE WORLD'S
LARGEST-SELLING
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IN THOUSANDS OF HOMES

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Also PINE 8½ d. & 1/6 per bottle

Trade enquiries to Sole manufacturers:—
The British Products San-Mex Co. Ltd., Glasgow, C.I.

- British made
- Distinctive in appearance
- Light in weight

Nowadays
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**HIGH CLASS
SUN-GLASSES**

Ask your wholesaler
for details of Styles,
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Or Apply to

LEWIS (Import & Export) Ltd.
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SOFT ...
SOFTER ...

SOFTX
Inter-leaved
TOILET TISSUE

Extra thin, pure strong quality
Softex Toilet ROLLS also available

A SWAN MILL PRODUCT, LONDON, W.1.



**Remind them
to buy by
displaying
GEORGE BELL'S
Blood Salts**

Give George Bell's Blood Salts, for dogs,
window and counter display and link up
with the extensive advertising campaign.

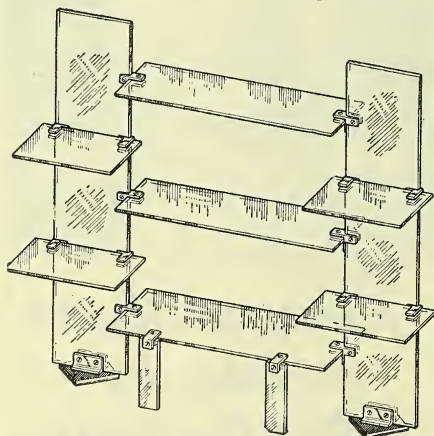
This will mean more sales and profits
for you. The packs make good displays,
but if you require further display
material, please write :—

BELL & SONS, LTD.,
18, SILVERDALE WORKS,
LIVERPOOL, 13

S.C.P. 9

shopfittings

★ You are cordially invited to visit our new Shopfittings and Showcase Dept. New, interesting display fittings, Showcases, etc., are on view and our display specialist is in attendance, to assist and advise. Why not take advantage of this new Potters Service? If unable to call write or phone your requirements.



unit clip dressing

★ This type of dressing affords a countless variety of window and counter displays. The fittings and plate glass shelves are interchangeable and can be assembled in various ways. Prices on application.

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(LONDON) LIMITED

No connection with Wm. Potter & Son Ltd., of Aldersgate Street, E.C.1.

97-99 ST. JOHN STREET, CLERKENWELL,
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BABY SOOTHERS
all rubber
★
TEATS & VALVES
for Feeding Bottles
★
FEEDING BOTTLES
singly boxed with Teat & Valve
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TEETHING RINGS
Plastic & Rubber
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COT SHEETS
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WATERPROOF SHEETINGS
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VACCINE CAPS

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MANUFACTURE
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PACK
YOUR
PRODUCTS

YOUR NAME
YOUR NAME
YOUR NAME

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Manufacturing Chemists

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PHONE
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EXPORT STILL COMES FIRST
but supplies available for the
HOME MARKET
in pre-war **TRANSPARENT** quality



*Sold only by Chemists
Recommended by them*

FINEST SURGICAL RUBBER PRODUCTS

MADE IN ENGLAND BY

HERBERT FROMM LIMITED

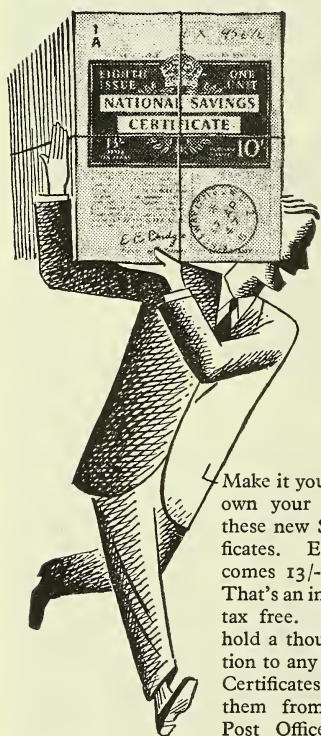
GLASGOW TERRACE, GROSVENOR ROAD, LONDON, S.W.1

TELEPHONE: VICTORIA 6258.

GRAMS: MORFI, SOWEST, LONDON

Take all you can carry!

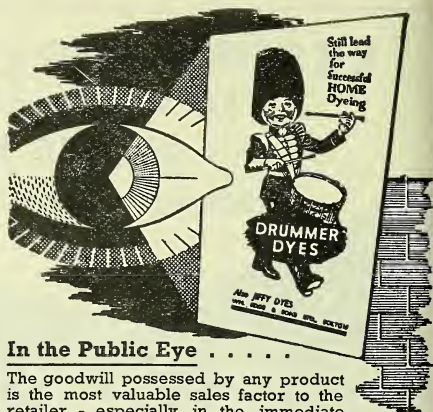
10' buys the NEW CERTIFICATES



Make it your ambition to own your full share of these new Savings Certificates. Every one becomes 13/- in ten years. That's an increase of 30% tax free. And you can hold a thousand in addition to any other Savings Certificates you have. Get them from your Bank, Post Office or Savings Group. Every Certificate you buy helps the Silver Lining Campaign.

£500 becomes £650 in 10 years

Issued by the National Savings Committee



In the Public Eye

The goodwill possessed by any product is the most valuable sales factor to the retailer - especially in the immediate future. Despite severe space restrictions DRUMMER DYES have steadily kept their name in the public's eye through advertising in the National Daily Press, Magazines and from the poster hoardings.

DRUMMER DYES

Also makers of JIFFY DYES

Made by Wm. EDGE &
SONS LTD. - BOLTON

213

VELVEX

REGD. TRADE MARK

TOILET PAPER

*Now pre-war
quality & reduced
in price!*

PACKETS ROLLS

VELVET CREPE
PAPER CO. LTD

VELVET
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PRODUCT

TOILET PAPER
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HANDKERCHIEFS

Another **Quality** product by the makers
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MARION MOORE'S

Shampoo

★ Guaranteed to contain **NO** soap

★ A laboratory tested
product that **REALLY**
does its job.

★ The most attractive
five-coloured label
ever produced.

★ **NATIONALLY
ADVERTISED!**

★ **BIGGER PROFITS
FOR YOU!!**



Selling price to Public	Cost to Retailer	Purchase Tax	Packing
1/3 size	8/6	2/10	2 doz.
2/3 size	14/6	4/10	1 doz.
4/- size	25/6	8/6	1/2 doz.

SOLE DISTRIBUTORS FOR THE U.K.

E. DAVIDS & CO. LTD. 378 Essex Road, London, N.1

Telephone : CLISSOLD 5571

MANUFACTURED BY HANNETTA LTD. LONDON, N.W.2



“ZEMS”

HERBAL LICORICE TABLETS

**THE BEST MEDICATED TABLETS
FOR COUGHS, COLDS,
ASTHMA, BRONCHITIS, ETC.**

*Supplies may be obtained from C.F.
Wholesale Houses.*

ZEMS, LTD.

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FANT FEEDING BOTTLES

ESSENTIAL FOOD AND
DRUG CONTAINERS,
MEDICAL FLATS AND
PANELS, ETC., ETC.



The essential needs of the nation still demand priority. To those planning ahead we invite enquiries for Glass Container Requirements.



*Wholesale &
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London Office :-

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REGD. OFFICES : Albert Glass Works, Hunslet, LEEDS, 10

Telephone: 21568 (2 lines)

Telegrams: Feeders Phone Leeds

Trust

LIPSTICK

The choice of
"THE WOMAN OF THE WORLD"



- * Six fascinating shades.
 - * Velvet smooth texture.
 - * Indelible - stays fresh & fragrant all day.
 - * Presented in propelling plastic case... 6/6 inc. Tax.
- Refills... 2/8 " "

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Sole Distributors in Eire: A. J. GREFF CO. LTD., 3 Sir John Rogerson's Quay, Dublin, Eire.

An Authoritative Statement on Toilet Papers

THAT good toilet papers are in short supply today is only too common knowledge. The reasons why production does not catch up with demand are not so apparent.

As the actual manufacturers of fine toilet papers we are in a position to state that it is mainly due to the shortage of *suitable* raw material. Paper can of course be made from any grade of "scrap" but the types of material suitable for our Toilet papers are strictly limited.

Hence we are compelled for the time being to ration supplies to all customers and to refuse with regret many orders of flattering dimensions.

But we are hopeful that the position will improve and enable us to satisfy all customers both old and new.

These are the products of St. Andrew Mills

		Retail Price
ANDREX	The softest Toilet Tissue known made entirely from purest pulp. Note—the whole production of Andrex goes to the home market—none is exported.	1/-
ANDROL	For those who prefer a glazed paper.	1/-
STANEX MARVO SAMARITAN	Absorbent unglazed paper not harsh or bulky crepe.	11d. 9d. 7½d.

Prices are subject to alteration without notice.

Wholesale only

ST. ANDREW MILLS LIMITED

LARKSWOOD · 1014 · 5 · 6

WALTHAMSTOW · E · 17

LABELS OF DISTINCTION

For Wholesale Manufacturing
& Retail Chemists

MEDICAL and DISPENSING
LABELS, TOILET, COSMETIC and
PERFUME, largest range of STOCK
LABELS (attractive two-colour 50-
60 wordings), SHAMPOO POWDER
ENVELOPES and INNERS, also
SACCHARINE TABLET ENVELOPES,
with name and address. We
can also offer multi-coloured advertising
stamps in exclusive designs.

Send for our
extensive sample
range

CARILLON PRESS LTD

Artists in the Production of Fine Labels
BOURNEMOUTH

B. B.

TESTED INSECTICIDES

*The makers of B. B. Insecticides
offer 2 quick selling lines for 1947*

• 3 WAY ACTION D.D.T. INSECTICIDE POWDER

ATTRACTIVE PACK
APPROX. 4 OZ. SPRINKLER DRUM
SHOWS 40% PROFIT. Retail 1/3

• B. B. BRAND D.D.T. FLY PAPERS

THE SEASON'S BEST SELLER

Owing to improved methods of deep
impregnation we are able to retail at
2d. each. Cost per gross 16/-

Trade Discounts Unchanged. Size Maintained

**ORDER For Immediate Delivery
NOW (Samples on Request)**

HOME and EXPORT

Enquiries to—J. GOODMAN (Chemicals Ltd.)
Devonshire Mews, Chiswick, W. 4.
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Continuous and Steadily Advertised FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected) Net Wholesale Price
Virus for Rats and Mice, single tube, 2/- 15/- per
3 tubes, 5/-
Virus for Mice only, single tube, 1/6 9/-
3 tubes, 3/-
Date-expired tubes returned to us postage paid
be exchanged free of charge.

Danzysz Virus in Liquid Form

Retail Price Wholesale Price
Bottles 6/- each ... 4/6 each
" 4/6 " ... 3/9 "

HALLER'S EXTRACT OF SQUILL and

DANZO RAT KILLER

Discount off Retail Prices 25 p.c. Monthly Account
or 33 1/3 p.c. Cash with Order.

	Retail	Monthly A/c	Cash with Order
1/2 gall. tins 10/-	7/6	6/8	
1 " 18/-	13/6	12/-	
5 " 80/-	60/-	53/4	

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches,
Crickets, etc.

	Retail Prices (Protected)	Wholesale Price
In cartons 9d. each	...	6/9 per c
" 1/6 "	...	13/6 "
" 3/- "	...	27/- "

Danzo Beetle Powder will not deteriorate by keeping
CARRIAGE PAID ON ALL ORDERS

To be obtained from

HALLER LABORATORIES, LTD.

325, Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London." Telephone: Hop.

HARVEY'S Horse Remedies

P.A.T.A. Protected Prices
Supplies can be obtained through
all Wholesale Houses
HARVEY & CO. (DUBLIN) LTD.,
DUBLIN



KLEENKIL DDT FLY & MOTH PAPERS 2

Samples and Prices from
THE KLEENKIL COMPANY
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EVERSHARP RAZOR

FIT
EVER-READY RAZORS
Wholesale Price
Incl. Tax
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37 HOUNDSDITCH, LONDON, E.C.3

— WHOLESALERS APPLY FOR TERMS —

SATISFY YOUR CUSTOMERS

Rod-Antu

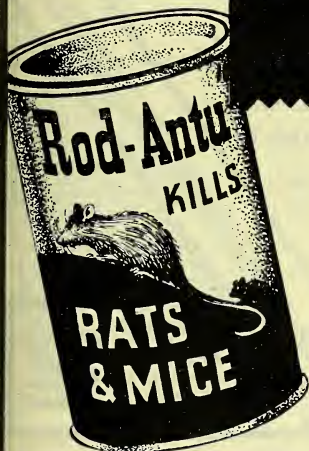
KILLS

**RATS AND MICE
AND WORKS EVERY TIME**

USED BY PUBLIC HEALTH AUTHORITIES
THROUGHOUT THE COUNTRY

RETAILS **1/6** AND **5/-** SPECIAL BONUS
TERMS

RODMILL CHEMICAL CO. LTD. LIVERPOOL



HATCHWELL

MIRACLE

MIXTURE *has saved the
lives of hundreds of dogs*

**The
sensible
chemist
knows that
pet owners
are worth
watering for**

Supplies the finest
remedies, well ad-
vertised, and show
more profit than
any other similar
lines. We do not
advertise our
Wholesale Prices.
You must write to us
if you are interested

**THE HATCHWELL COMPANY LTD.
MYRON STREET, PRESTON, LANCASHIRE**

*Make Money
out of the
Moth Menace*

Sell

**PROMOL
MOTH
RINGS**

RETAIL AT



**7^D
PER
PACKET**

Whole-
sale
56/- Per Gross

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Dettol

BRAND

Ointment

Effectively bactericidal yet non-irritant; emollient and penetrative: combining these qualities 'Dettol' Ointment (*P*-chlor-*m*-xyleneol and other active principles of 'Dettol') is ideally adapted to the treatment of septic conditions of the skin.

Packed in 1-lb. and 7-lb. jars for Hospital and Surgery use.

RECKITT AND COLMAN LTD, HULL AND LONDON
(PHARMACEUTICAL DEPT., HULL)

ZEAL

Clinicals
The Choice of Experts

BRITISH
MADE

NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES

Also Household, Bath
and Works Thermometers,
the best of their kind

G. H. ZEAL LTD.
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RELIABLE
ELASTIC HOSIERY
SEAMED AND SEAMLESS

For special garments to measure
we give the best possible service

**SURGICAL BELTS
TRUSSES AND SUNDRIES**

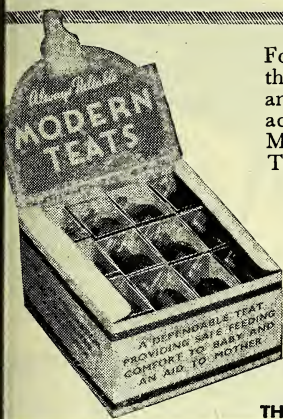
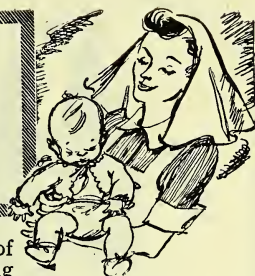
50 years' service of
everything Surgical

SURGICAL HOSIERY CO. LTD.

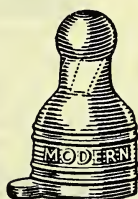
Russell Street - NOTTINGHAM

Telephone No. 75903 Telegrams: Surgical Nottm

The SALES APPEAL is in the DESIGN



Following widespread acceptance of the new anti-colic design by Nursing and Medical Authorities, extensive advertising support in the National Press and Women's Magazines is rapidly stimulating demand for the "Modern" Teat. Available in attractive counter display outers of three dozen, through wholesalers only. Fixed retail selling price 6d.



The "MODERN"
ANTI-COLIC TEAT

THE CANNON RUBBER MANUFACTURERS LTD, LONDON N.17

WHY IT PAYS YOU TO SELL THE LARGE SIZE CARTERS



IT PAYS YOU to sell the large-size Carters because you can make 1/- profit on every 3/5 tube. And you'll find it easy to sell this size because the customer saves 10d. and gets 5 extra pills. Supplies are readily available. Send your order now and see how easy it is to make big profits!



ORDER YOUR CARTERS LITTLE LIVER PILLS *Now!*
from Thomas Marns Ltd., 2 Caxton Street, S.W.1



48 HOURS A DAY

Twice as many hours a day *might* give you time both for leisure and for following new developments on medical problems.

Mineral Deficiency is one problem you meet every day, a problem you can solve only by providing an adequate mineral supplement. Many doctors and clinics prescribe Calfos Tablets, to correct deficiency resulting from years of rationing.

For every expectant and nursing mother Calfos provides calcium and phosphorus *in true natural ratio*, with all trace elements found in normal healthy bone. For children of all ages, Calfos means sound bone and teeth.

Please write for special Trade Terms.

CALFOS

Natural Mineral TABLETS

CALFOS LIMITED • IMPERIAL HOUSE
KINGSWAY • LONDON • W.C.2

C.F.

P.A.T.A.

**PUBLIC
GOODWILL**

Box's Pills have kept this
Flag Flying for over 50
years and the demand now
is greater than ever.

P.A.T.A.

PRICES
(Inc. P. Tax)

1/3 3/-

4/10½

12/- & 21/9



Box's Pills

W.H. BOX
161
KING STREET,
PLYMOUTH

Dr. White's

KOMPO

FOR
COLDS

Manufactured only by

J. F. WHITE & CO., LTD.

Lovington Laboratory, Berron St., Leeds,

SECOND TO NONE

Malt Extract Table



A delicious, sustaining sweet
dissolving slowly in the mouth.
Children love them. Supplied
counter display RETAIL
boxes of 2 dozen. **7½** D. IN TA

ANDERSON RICHARDS & CO. LTD
37 Eastcheap, London, E.C.3

Little-known Limericks—No. 5 (Reprinted)

Brand's very fair methods of dealing
 Give a chemist in business at Ealing
 And a grocer at Crewe,
 When their quota is due,
 A very well-satisfied feeling.



We try to give all our customers a feeling of satisfaction. We want them to feel that we are doing the best we can to distribute our limited supplies as fairly as possible. That is why we adhere to a strict quota basis for all our products.

Brand & Co. Ltd., London

CLEOPATRA'S NEEDLE typifies the enduring qualities of

Milward's
VIM
 REGD. TRADE MARK

HYPODERMIC
 NEEDLES &
 SYRINGES

The regard of surgeons for Vim Needles and Syringes is proved by letters received, and especially by repeat orders. These high precision instruments are superbly constructed to function without a thought beyond a decision to order them—by name.

VIM STAINLESS STEEL HYPODERMIC NEEDLES. Vim Needles outlast three to five needles made of ordinary steel. They are rust-resisting, with razor-sharp edges.

VIM HYPODERMIC SYRINGES. Special "heat-resistant, slow-ground" glass; individually mated glass plungers working in individually calibrated barrels; superb craftsmanship. Repair service available. Sizes up to 20 c.c. Limited supplies.

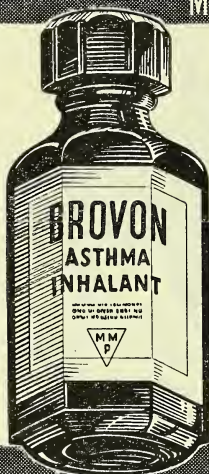
Sole British and Empire
 Distributors (except Canada)

Chas. F. Shackray
 LTD.

Head Office : THE OLD MEDICAL SCHOOL, PARK ST., LEEDS, 1
 Also at 38 WELBECK ST., LONDON, W.1



MOORE MEDICINAL PRODUCTS LTD

• ABERDEEN
SCOTLAND

The Remedy for — **Asthma** which excels all others

The above expresses the opinion of tens of thousands of critical asthmatics. Display and recommend it; repeat sales will follow automatically.

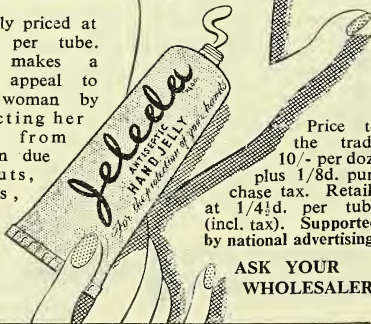
The profit is generous. 8/4d. per $\frac{1}{2}$ -oz. bottle and in larger sizes.

INHALANT
BROVON

*Over 40% profit
on hand
for you!*

**JELEDA IS THE NEW
ANTISEPTIC HAND JELLY**

Popularly priced at 1/4d. per tube. Jelede makes a strong appeal to every woman by protecting her hands from infection due to cuts, chaps, etc.



Price to the trade 10/- per doz. plus 1/8d. purchase tax. Retail at 1/4d. per tube (incl. tax). Supported by national advertising.

**ASK YOUR
WHOLESALE.**

LEDA CHEMICALS LTD.
Wharf Road, Ponders End, Middlesex.
Telephone: HOW 2231

**Healthy babies
Happy mothers**

You can recommend Drury's Infants' Preservative with every confidence. It is safe, effective, and a most excellent remedy for Wind Spasms, Griping pains, and other distressing complaints incidental to infants at the period of cutting their teeth.



If you stock
DRURY'S
Infants' Preservative

DRURY'S PHARMACEUTICALS LTD.

NEWARK
ENGLAND

FOR BETTER SALES



Sole Makers THOMAS WARD & SONS, LTD
Wardonia Works Sheffield, I

Increased sales of
adhesive dressings means

GREATER DEMAND FOR **ZOFF**

PLASTER REMOVER & SKIN CLEANSER

Zoff is in good supply. As adhesive dressings sales grow, more customers will ask for it. Display **Zoff** on the smart display outer—near your adhesive dressings and plasters tray. Remember, **Zoff** Plaster Remover and Skin Cleanser is now in larger more attractive bottles; the formula is improved too. You buy at 8/- per dozen bottles and sell at 1/- per bottle.



ORDER
NOW

from your usual wholesaler

ZOFF

TRADE MARK

A Smith & Nephew Product

★ *We can help you with your* **MEDICINAL TABLETS**

We are in a position to undertake the manufacture of medicinal tablets—coated or uncoated—in any quantities to customers' own specification. Modern factory, latest equipment, up-to-date machinery. Laboratory control at every stage.

Write for quotations, giving full particulars of requirements to:—



★

HIGH PATH, MERTON, LONDON, S.W.19. 'PHONE: LIBERTY 4395

**An advance
in
Asthma
medication**

Respaton
TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipruritic, Analgesic, Sedative.

Formula

<i>Ephedrine Hydrochloride</i> ...	$\frac{1}{4}$ grain
<i>Ext. Bellad. Sicc. B.P.</i> ...	$\frac{1}{10}$ "
<i>Dioxyamidopyrine</i> ...	$\frac{1}{2}$ "
<i>Ipecac. Pulverat. B.P.</i> ...	$\frac{1}{2}$ "
<i>Theobromine</i> ...	"
<i>Calcium Lactate</i> ...	"
<i>Lactose</i> ...	"

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.

In Bottles 25 tablets 3/11½d.; 100 tablets 14/1d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.

West India House
Maryland Street, Liverpool, 1.



Creators of high-class Perfume Compounds and makers of Aromatic Chemicals and Technical Deodorants.
FIELD & Co. (Aromatics) Ltd.,
Alperton, Wembley, Mdx.

ASMIDAR SPECIALITIES

at present available

PIPERAZINE (Asmidar)
Effervescent Granules

A uric acid solvent—3 oz. size.

GLUTONINE (Asmidar)
Strychnine Gluconate — Gives prolonged action with decreased toxicity.
Boxes 8 x 1 c.c. ampoules 0.002, 0.0035, 0.005 gm.

SULPHAZOL CREAM (Asmidar)
Containing 5% Sulphathiazole in non-greasy base. Indicated in cases of Impetigo and coccal infections.
Size—½ oz. Tubes.

ASMIDAR ANTI-RHEUMATIC OINTMENT
Non Greasy Non Staining Analgesic
Size—½ oz. Tubes.

ICHTHAMMOL B.P.
With high organically combined sulphur content.

Literature and fuller information on these Preparations can be supplied on request.

ASMIDAR LTD.
14 DOUGLAS STREET, LONDON, S.W.1
(Telephone: Victoria 5556)

PEBOC LTD

MANUFACTURERS OF

VITAMIN D3

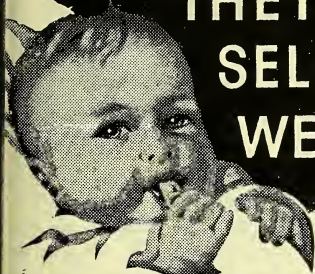
Enquiries

to

SALES OFFICE,
629, TOWER BUILDING,
WATER STREET,
LIVERPOOL 3.

LABORATORIES · GREENFORD · MIDDX

THEY SELL WELL



for
seven
good
reasons

- (1) Made from best Latex obtainable.
- (2) Available normal and anti-colic shapes.
- (3) Hygienic and attractive individual packing.
- (4) Seamless construction.
- (5) Transparent.
- (6) Stand repeated sterilization.
- (7) Fit any size bottle.

GROVEWELL

FEED TEATS & VALVES

Grovewell soothers are also now available.

Wholesale only supplied

6, Forest Road, Walthamstow, London, E.17

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ACCELERATES BUSINESS

"More display means more sales, means more bonus—and so the wheel turns"—that was one chemist's way of describing how the benefits start mounting up when you display 'ASPRO'. Displaying 'ASPRO', in fact, **ACCELERATES** business—CREATES CUSTOM for other lines, too, and so speeds-up turnover and increases profits. Give 'ASPRO' prominent display and you immediately get the full results of THE MOST ENTERPRISING AND ACTIVE ADVERTISING CAMPAIGN GOING ON IN THE COUNTRY. While well-tried methods of 'ASPRO' publicity are being sustained and expanded, every new method which proves of value is used to the full.

The result is that

'ASPRO'

is selling to a
GREAT POST WAR PUBLIC

Hundreds of thousands of speedway and football supporters are hearing the weekly 'ASPRO' programme; millions of cinema-goers are seeing the 'ASPRO' film. Putting in the window a prominent reminder that YOU stock 'ASPRO' is the fastest way of making new and permanent customers.

Made by ASPRO LTD., Slough, Bucks

PATA

Seasonable demand . . rapid sales! . .

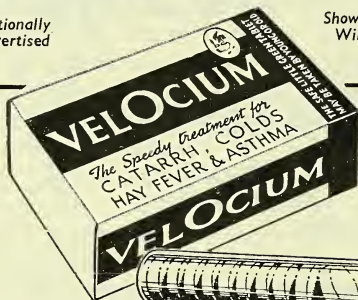
VELOCICIUM

THE SPEEDY TREATMENT

COLDS, CATARRH, HAY FEVER
and kindred ailments . . .

Nationally
advertised

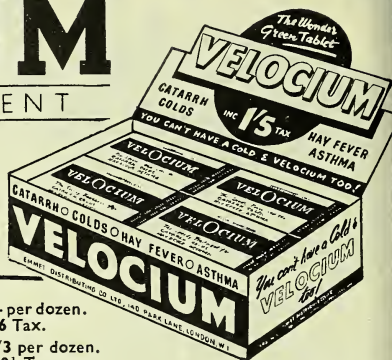
Showcards and
Window Bills
available



36 tablets 27/- per dozen.
plus 4/6 Tax.
12 tablets 11/3 per dozen.
plus 1/10½ Tax.
Retail prices
3/4½ and 1/5



E.M.4



Sole distributors

EMMET DISTRIBUTING
COMPANY LIMITED
140 Park Lane, London, W.1
Tel.: MAYfair 6756

EDME
"Autumn Sun"
EXTRACT OF MALT WITH COD LIVER OIL



- builds
winter sales

"The butterscotch flavour" will again be in favour. Last year's customers will come again for more, and they will recommend others to "Autumn Sun." National advertising will bring in the season's new business to stockists, for whom there is this FREE and



ATTRACTIVE DISPLAY

in the form of a full-colour, self-standing showcard (only 9½ x 8½ inches) holding a 1-lb. actual jar with its attractive label.

Retail prices are right and trade terms generous. On P.A.T.A. list.

EDME LTD., IMPERIAL HOUSE, REGENT STREET, W.1
Telephone REGent 5563-4. 'Grams "EDME," Piccy London. Works: MISTLEY, ESSEX

FENNINGS

FAMOUS FOR OVER 80 YEARS

PATA

FENNINGS' CHILDREN'S POWDERS	...	...	1/3, 3/-, 5/-, 12/-
FENNINGS' LITTLE HEALERS	...	...	1/3 and 3/-. Also
6/- Carton of 12 Packets, retailing at 6d. each.			
FENNINGS' FEVER MIXTURE	...	...	1/3 a bottle
(If difficult to obtain write direct to Messrs. SUTTON & SONS, 12 Brandon Rd., London, N.7.)			
FENNINGS' ADULT POWDERS	...	...	1/3, and 3/-
FENNINGS' OINTMENT.	...	...	1/3 a tin
FENNINGS' STOMACH STRENGTHENERS	...	...	1/3 and 3/- boxes
FENNINGS' RHEUMATIC DROPS	...	...	1/3 a bottle
FENNINGS' WHOOPING-COUGH MIXTURE	...	...	1/3 a bottle
FENNINGS' SULPHUR POWDERS	...	...	1/3 and 3/- boxes

Please address orders and inquiries to your Wholesaler

PROPRIETORS: THE TRUSTEES OF ALFRED FENNINGS (DECEASED)
COWES, Isle of Wight

LASTONET

OPEN WOVE ELASTIC
SUPPORTING
BANDAGE

Whole-
sale
Distributors
The
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LIMITED

167-173
GRAY'S INN ROAD
LONDON, W.C.1.

Manufactured
from LASTEX
THREAD

Write
for
terms

"Lastonet" is a Registered Trade
Mark of John Heathcoat & Co

CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An N.W.F. formula now being used extensively by Public Health Authorities.

'Semprolia'
BRAND

MEDICATED (LETHANE) HAIR OIL N.W.F.

Insecticide for control of Nits and Head Lice

★
**'SEMPROLIA' MEDICATED (LETHANE) HAIR OIL IS
IN URGENT AND RAPIDLY INCREASING DEMAND**

Retail (2-oz.) 1/1½d. Including P.T.
List 8/- doz. Packed in 2-dozen outers.

PATA

STEMCO LTD., 128, Albert Street, London, N.W.1
Agents in Eire—May Roberts (Ireland) Limited, Dublin

Stanlast
CASCARA SAGRADA
ASPIRIN
CODEINE CO



3

**SOUND STANLAST
SELLERS**

We invite your enquiries for any quantity of the above. Also Stanlast Grape Bandages, Packed Pharmaceuticals and Tablets and Pills of every description.

**STANNING
PROPRIETARIES LTD**
32 ST. JAMES'S STREET, LONDON, S.W.1

PROFITS

MALTOBAR

is available in
6^D BARS

NO POINTS



**TASTE
GOOD
LOOKS GOOD**

Each ounce contains
2,000 i.u. vitamin

Enquiries to the Manufacturers:
AFFINED BASIC CHEMICALS LTD
EMPIRE WORKS, DESBOROUGH ROAD,
HIGH WYCOMBE, BUCKS.
Telephone: High Wycombe 2266-7-8

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*Medicinal and
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announce that they are able to
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**HONEY, GLYCERINE & LEMON
Cough Linctus**

a popular product at a popular price, made
from real Lemon Juice, pure Honey and
Glycerine. The Ingredients speak for them-
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this quick-selling line.

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**WINTER
ADVERTISING
CAMPAIGN**
includes lead-
ing newspapers
in all districts.
Now is the time
to stock and
display.

Trade terms from

D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.1

**CORKS!
STOPPERS, ETC.**

C. OLLEY & SONS LTD
CAMPERDOWN STREET
LONDON, E.1
EST. 1844

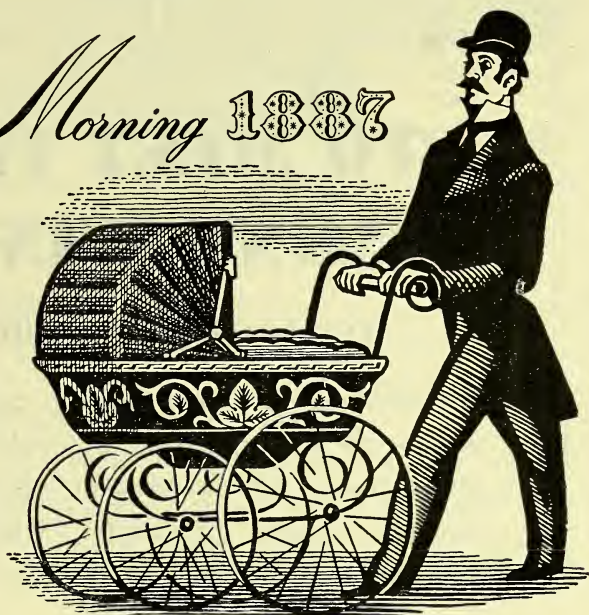
RABOK THE WONDER WOOL

★ Cleans as it Polishes

THE MODERN METHOD OF CLEANING
Gold, Silver, Electro Plate, Chromium, Etc.,
USED BY ALL LEADING SILVERSMITHS

Trade Enquiries to:
The RABOK MANUFACTURING Co. Ltd.
OUGHTIBRIDGE . . . SHEFFIELD

Sunday Morning 1887



It is the year of the Golden Jubilee. Miners are earning 36/- a week and everyone is talking about Stevenson's new novel "Dr Jekyll and Mr. Hyde." The boy in the bassinette is six months old. His mother is giving him M.O.F. — "one of those new-fangled foods."

Scott's of Edinburgh launched M.O.F. in the '80's. Then it was confined to Scotland. It was not until 1941 that Scott's made M.O.F. available throughout the whole of England. In the '80's it was a very modern food. It still is. M.O.F. has kept in step with the progress of nutritional science. Today it is

fortified with iron, calcium, phosphorus and Vitamin D—in keeping with the current trend in infant nutrition. Even though M.O.F. was not distributed on a national scale until 1941, now more than half of the country's infant welfare centres are recommending it.

And what is equally important, the grandchildren of the boy in the bassinette like their M.O.F.

Scott's of Edinburgh are naturally proud of the success that M.O.F. has achieved. They are planning other infant foods which they are confident will achieve the same measure of acceptance.



SCOTT'S OF EDINBURGH

TO MEET THE COMING WINTER

. . . your co-operation please

Serocalcin is now well known, both for the prevention and treatment of colds. From its past success there is every indication that the demand to meet the coming winter will be very great.

We are anxious to give you the best delivery service possible under existing conditions, so please look ahead, place your orders early, and maintain your stocks at a reasonable level throughout the season.

FOR THE PREVENTION AND TREATMENT OF COLDS

SEROCALCIN

Pharmacists are reminded that orders and enquiries for Serocalcin should now be addressed to J. C. Eno Limited, Watford, Herts. Telephone Watford 7761.



HARWOODS LABORATORIES LTD . WATFORD . HERTS

The CHEMIST AND DRUGGIST SUPPLEMENT

Supplement is included in every Copy of Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

OCTOBER 25
1947

CLASSIFIED ADVERTISEMENT TARIFF

BUSINESSES for DISPOSAL, BUSINESSES and AGENCIES WANTED, GOODS for SALE (value £5-£50), PARTNERSHIPS, PATENTS, PREMISES to LET, for SALE or WANTED, SITUATIONS OPEN

LEGAL NOTICES, SALES BY AUCTION, TENDERS and all SPECIALLY SPACED ADVERTISEMENTS

AGENCIES, EXPORT TRADE, MISCELLANEOUS SECTION (for Wholesalers, etc., for odd and second-hand lots value not more than £150)

SITUATIONS WANTED

8/6 for 36 words or less, 3d. for each additional word.

2/6 per nonpareil line (12 lines=1 in. single column).

17/6 for 36 words or less, 4d. for each additional word.

3/- for 18 words or less, 1d. for each additional word.

BOX OFFICE NUMBERS, 2/- extra (except Situations Wanted, which is 1/-).

All advertisements must be prepaid.

Advertisements can be accepted up to FIRST POST WEDNESDAY MORNING of week of issue.

Later advertisements will be included in next available issue.

In view of existing paper shortage advertisements should be sent as early as possible accompanied by remittance to

THE CHEMIST AND DRUGGIST, 28 ESSEX STREET, STRAND, LONDON, W.C.2.

Sell your business through BRITAIN'S LARGEST AGENCY

ation-wide Advertising each week
500 papers producing the maximum number of Buying Clients.

A SERVICE WITHOUT AN EQUAL

Tact, Freshness, Vigour
and High Ethical Standard

GUARANTEE TO SELL OR NO CHARGE

Inclusive terms : 5% when sold.

No preliminary fee.

No Advertising fee.

NATIONAL BUSINESS AGENCY LTD.

, EASTCHEAP, CITY, LONDON, E.C.3.

one (3 lines) MANsion House 1207, 2748, 2749

Death to Flies!

SCOTT'S

D.D.T.

FLY and MOTH
PAPERS

DESTROY FLIES ON CONTACT

3^d EACH

THIS YEAR'S FASTEST SELLING LINE

Scott's D.D.T. Fly Papers will clear a room of flies, gnats, midges, etc., in no time. D.D.T. is absorbed through the pads of the flies' feet which causes death very quickly.

PRICE 24/- PER GROSS
TRADE & WHOLESALE ENQUIRIES INVITED

SOLE MANUFACTURERS:
J. & K. SCOTT,
MANUFACTURING CHEMISTS,
51, SUMMER ROW, BIRMINGHAM. 3.

DISTRIBUTORS: SWINNERTON'S
SHIRE OAK WAREHOUSE • STONNALL • WALSALL.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagement Order, 1947.

SITUATIONS OPEN

8/6 for 40 words or less, 2d. for every additional word

RETAIL (HOME)

A SMART, young, qualified assistant required; male or female. No N.H.I.. No Sunday or holiday duty. Please state usual particulars. Early Bunn, Ltd., Chemists, 95 High St., Chelmsford, Essex.

ASSISTANT wanted, either sex, qualified or unqualified, by country chemist in large village in Wiltshire. Brisk family and country business with some dispensing. No Sunday or half-day duty. Limited accommodation makes single person essential. Essential Works Order and accommodation negotiated after particulars of age, sex and experience and salary required have been received by 2/62, C. & D. Office.

CHEMISTS' ASSISTANTS (ladies) wanted for clerical work in the N.H.I. checking bureau and stock-pricing departments. Apply National Pharmaceutical Union, 4-5 Queen Sq., W.C.1.

ELDERLY PHARMACIST required for a good-class West End pharmacy. No dispensing, light duties and comfortable hours. Apply Box 2/53, C. & D. Office.

EXPERIENCED man, preferably qualified, required for high-class West London pharmacy. Excellent prospects and salary. Apply with full particulars to 1/578, C. & D. Office.

FARNHAM. Unqualified dispensing assistant, male or female, required for busy dispensing branch. Good salary; permanency. Apply to Retail Staff Dept. (Drug), Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Rd., S.W.1.

GLASGOW. Qualified lady assistant required; good prospects. Apply Grieve, 365 Holmlea Rd., Cathcart. Tel. Merrylee 2638.

KENT. Unqualified, experienced assistant (lady or gentleman) required in old-established, good-class business. Please give full particulars in first letter of experience, age, salary, etc., and say when disengaged. William J. Peacock (Chemists), Ltd., 39 High St., Sittingbourne.

LADY PHARMACIST required as manageress for good-class West End hotel pharmacy. Mainly counter work; no late duty and Saturday half-day. Good opportunity to gain West End counter experience. Apply, Superintendent Chemist, Heppels (1932), Ltd., 70 Vauxhall Bridge Road, S.W.1. Phone Victoria 2201.

LADY DISPENSER required. Pharmacist or Hall cert. Permanent; full time. No duty Thurs. evening or Sunday. Good residential district near London. Could arrange temporary accommodation short while. Write fully Mrs. McCarthy, 88 Station Rd., Sidcup, Kent.

LINCOLNSHIRE. Qualified manager required for pharmacy in large village. No extra duty. Modern, seaside house available, 5 miles away. Total abstainer. References essential. Please state age and salary required, 2/63, C. & D. Office.

LONDON, S.W.11. Manager required with interest in business if desired. Salary and commission. Ideal for man seeking responsibility and more scope. Applicants should have D & P experience. No accommodation is offered but travelling facilities are exceptionally good. 2/56, C. & D. Office.

LONDON, W.1. Qualified assistant required for dispensing and counter. Please give full particulars of experience, also age, salary expected, and when disengaged, to Marsons, Ltd., 123 Baker St., London, W.1.

MIDLANDS. Pharmacist required. Good-class dispensing and photographic business. City centre. Very reasonable hours. No holiday duties. references and salary required. 2/45, C. & D. Office.

M.P.S. Lady or gentleman, urgently required old-established business as qualified superintendent Permanent position. No holiday or Sunday duty. Hours 9 till 6 with 7 o'clock duty every sixth. Small N.H.I. business. Apply 1/993, C. & D. Office.

ORRIDGE & COMPANY Employment Agency, Strand, W.C.2. Temple Bar 9212/3. Branch Southampton and Birmingham. Enquiries if from pharmacists and unqualified persons request situations. Many attractive vacancies available. Excellent opportunities existing in progressive manancies. Locums provided for. No charge employees except registration fee. Apply to Strand, W.C.2, in first instance.

PHARMACISTS. Applications are invited from qualified chemists, male or female, to man branches in Glasgow and District. Good wage conditions with entry into superannuation fund in initial period of service. Apply in writing full particulars of age, experience and when first The Technical Supervisor, Scottish Co-operative Wholesale Society, Ltd., Retail Drug Department, 187 Bogmoor Rd., Shieldhall, Glasgow, S.W.

PLYMOUTH Co-operative Society, Ltd., requires qualified pharmacist and relief branch manager. Early prospect of branch management. Permanent and progressive. Superannuation scheme (trial clause). Applications stating age and experience General Secretary, 50 Thorn Park, Plymouth, 1, later than October 30.

QUALIFIED CHEMIST required as assistant. Country. Good hours and salary. 2/46, C. & D. Office.

ROCHDALE. Energetic manager required for branch. Lady or gentleman. Good opportunity. Apply by letter, Superintendent, Mercers, Ltd., Oldham Rd., Rochdale.

THE Royal Arsenal Co-operative Chemists, have vacancies for qualified and unqualified pharmacists at their branches in South-East and West London. Good opportunities for promotion and holidays with pay. Apply in writing, age, experience and salary required to the Manager, Royal Arsenal Co-operative Chemists, Ltd., 113 Powis St., Woolwich, S.E.18.

TIMOTHY WHITES & TAYLORS, LTD., have a vacancy for an experienced unqualified assistant dispensing and counter duties at their branch in Dover. Good salary paid to first-class man. Convenient interviews arranged. Apply with full particulars, to Retail Staff Dept., Timothy Whites & Taylors, Ltd.; 70 Vauxhall Bridge Rd., London, S.W.1.

UNQUALIFIED, required. Male and female dispensing and counter work. Salary and commission. Half-day Thursday, no Sunday work. James Dawe & Co., Ltd., 106 King's Cross, W.C.1.

WANTED. Qualified lady or gentleman for dispensing business in the Cotswolds. No Sunday duty. Early closing Thursdays. A moderate salary. Apply C. J. Viner, Minchinhampton, nr. Stroud, Glos.

WANTED, fully qualified chemist branch manager, no half day or Sunday duties; good wages and conditions. Apply The Co-operative Society, Ashton-under-Lyne.

YORK Co-operative Chemists' Society requires a qualified pharmacist to act as assistant society's central premises. Superannuated manent position with opportunity for progress Sunday or half-day duties. Short hours. Would newly qualified wishing to gain experience in Co-operative pharmacy. Apply, giving full particulars to General Manager, 22 Railway St., endorsed "Pharmacy."

ING QUALIFIED PHARMACIST required as first in large modern pharmacy. Permanent with superannuation. Good salary, 44-hour and other advantages. Qualified tuition and licence offered in optics and chiropody if desired. Apply giving usual particulars and salary to Peterborough Co-operative Chemists, Park Rd., Peterborough.

WHOLESALE

LARGE old-established company with ample financial resources and a live selling organisation requires services of an assistant compounder for petty compounds. Applicants must have experience in similar work and must have initiative and to work independently on new lines. Applicants should give particulars of age, whether single or married, education and experience, and the salary required. All applications will be treated in strict confidence. 2/19, C. & D.

EXPERIENCED representative with a live concern among retail chemists North of the Thames required immediately. Salary, expenses, commission. Inexperienced representatives and travellers requiring an extra sideline need not reply. Car is preferred. Write full particulars in first class, to The Pomade of Peru Co., 357 Wandsworth Rd., London, S.W.8.

LYST with Ph.C. and/or A.R.I.C. qualifications required by large Manchester firm manufacturing pharmaceutical products, to control raw and finished materials. The position offers scope and good prospects. The position offers scope and good prospects. Write, stating age, qualifications, experience, etc., to Analyst, P.O. Box No. 407, Manchester.

ICATIONS are invited for the position of deputy head for supervision of the manufacture of all pharmaceuticals. The position is permanent progressive and offers excellent scope for the use of initiative and administrative ability. Write, stating age, qualifications and experience, and giving reference number 791 to Box 2/6, C. & D.

TANT required for works laboratory of small pharmaceutical manufacturers, North London. 5-day week. Applications, stating full particulars of experience, age, salary, of persons willing to be tied for specialised work are invited to 1/922, C. & D. Office.

ABLE, experienced, unqualified assistant required for wholesale chemists, for interesting position in medical specialties department. Good salary and conditions. Apply with full particulars, to R. Gibbs, Ltd., Manor Ave., Paignton, Devon.

IST required for works laboratory. M.P.S. or Ph.C. qualification. Previous experience not vital. Apply Matthews & Wilson, Ltd., 6 & 8 St., S.E.1.

YWRITER, free lance or spare time, required detailed manufacturers for ethical literature. 9, C. & D. Office.

METIC manufacturers require go-ahead representative for Yorkshire area. One with own concern among chemists and stores preferred. Must be owner. Salary, expenses and commission, or commission only basis. 2/28, C. & D. Office.

FIRST-CLASS AGENTS WANTED all parts of the country to sell 4/6 Denture article on commission. Only first-class men capable of earning something in the region of £20 per week need apply. Write, W. S., 10 Hanover Square, Bradford.

DANGEROUS DRUGS. Young chemist required to keep records and supervise manufacture and packing of dangerous drugs. Good opportunity to enter wholesale trade. Five-day week. Write, giving full details of experience etc., to 2/42, C. & D. Office.

DRY-ROOM ASSISTANT required by firm of manufacturing and wholesale chemists. Previous experience in handling tablets, ointments, etc. essential. Permanent position for the right person. Please apply to the Manager, Messrs. Granville Wood & Co., Ltd., Ascroft St., Oldham.

EXPERIENCED representatives or sole agents required by manufacturers of first quality, attractively presented pharmaceutical products in every-day demand. Existing clientele transferred. Territories: 1. Whole of Wales. 2. Hants and Western Counties. 3. South London, Surrey, Sussex, Kent. Established connections chemists, stores, Co-ops. Own car essential. Only applications from ambitious, capable workers considered. Complete information, prior to interview, required in confidential first letter, applications otherwise not entertained. 2/64, C. & D. Office.

FIRST-CLASS representative, preferably a pharmacist, required by well-known pharmaceutical house. To cover East Coast of England, from the Wash to the Border, calling upon hospitals, institutions, doctors, chemists, etc. Salary, commission, expenses. Excellent opportunity for right man. Send particulars of age, experience and salary required, to 2/66, C. & D. Office.

FACTORY MANAGER required. First-class cosmetic factory in London area. Must be fully experienced. Good salary. 2/27, C. & D. Office.

HIRST, BROOKE & HIRST, LTD., Sheepscar Works, Leeds 7, require experienced tablet room foreman, capable of taking charge of department. Apply with full particulars to Managing Director.

LABORATORY MANAGER. Well-known London manufacturing chemists require qualified pharmacist to control galenical laboratories. Wholesale manufacturing experience essential. Good prospects. Write in confidence, giving full details of experience, salary required, etc., to 2/41, C. & D. Office.

LANCASHIRE & YORKSHIRE. Two vacancies occur for representatives in these areas to call on retail chemists. Progressive posts. Remuneration by salary and expenses. Apply by letter, giving full particulars of age, experience and salary wanted to Sales Manager, Westminster Laboratories, Ltd., Chalcot Rd., London, N.W.1.

MANUFACTURING CHEMISTS, Manchester, require qualified or unqualified process worker for general manufacturing. 5-day week. 1/994, C. & D. Office.

MANUFACTURING CHEMISTS require first-class representative for Glasgow and S.W. Scotland. Essential qualifications, first-class, live, energetic man capable of large turnover with established connection chemists, hairdressers, grocers, ironmongers, etc. Own car essential. Salary, car allowance, expenses and commission. Send full details, experience, age, etc., with first letter. Write 1/914, C. & D. Office.

MANUFACTURING CHEMISTS specialising in emulsifiers and allied products require experienced representatives in N. London, S. Wales and Newcastle areas. Payment by salary, commission and expenses. 1/961, C. & D. Office.

M.P.S. or Ph.C. required by London firm for control department; knowledge of manufacturing biologicals desirable. State salary, to 2/39, C. & D. Office.

OLD-ESTABLISHED company marketing nationally advertised toilet line selling to retail chemists, Co-operatives and departmental stores, want well-established representatives of high integrity for Norfolk, Suffolk, Lincolnshire, Hunts, Northamptonshire, Oxfordshire, Cambridgeshire, Essex, Hertfordshire, Bedfordshire and Buckinghamshire. Preference given to applicants already handling one P.A.T.A. line and possessing a car. Commission only. Apply 2/34, C. & D. Office.

OLD-ESTABLISHED British firm require the services of industrial chemist with specialised experience in the manufacture and packing of soap powders, soap powder substitutes and soaps. For West of England, State full experience, qualifications and salary. 2/35, C. & D. Office.

OLD-ESTABLISHED firm of manufacturing and wholesale chemists requires representative, to call upon existing clientele in Lancashire, Cheshire, North Wales and the Potteries. Must have good pharmaceutical knowledge. Experience in dealing with doctors and retail chemists an advantage. Car owner preferred. Men of ability only need apply. Please state, in confidence, experience and salary required. Address 2/59, C. & D. Office.

REPRESENTATIVES required by manufacturers of high-class quick selling lines. Must have good connections to chemists. All areas. Generous commission. 1/798, C. & D. Office.

REPRESENTATIVES required by manufacturing chemists specialising in counter lines and packed goods for the London and Surrey area, generous commission terms; representatives with non-competitive lines not objected to. Telephone Brixton 3776 for appointment or write 2/57, C. & D. Office.

REPRESENTATIVES required, already calling on chemists and stores in London and certain provincial areas, to handle nationally advertised products on a liberal commission basis. Write, giving details of territory covered. 2/40, C. & D. Office.

REPRESENTATIVE or agent required, with good connection chemists, co-ops, stores, etc., in following areas, for two first-class advertised lines of repute: (1) South Wales and Bristol; (2) Herts, Bucks, Beds, and Northants. Car owners preferred. Good commission and part expenses basis for right men. Full details, stating age, lines at present carried, and area covered, to 2/52, C. & D. Office.

REPRESENTATIVES required to handle an attractive range of pharmaceutical products in the following areas: Durham, Northumberland, Gloucester, Wiltshire, Somerset, Dorset and Hampshire. One with a good connection among the grocery trade in these areas preferred. Remuneration by salaries, expenses and commission. Apply with fullest particulars, to Kempac, Ltd., Bradford Rd., Batley, Yorkshire.

REPRESENTATIVES required by reputable wholesale hairdressers' sundriesmen in all parts United Kingdom to carry additional items on commission basis. Existing connection with hairdressers and chemists essential. Good lines and commission offered. F. Ambrose, Ltd., 48 New Kent Rd., London, S.E.1.

REPRESENTATIVES required for the rapidly expanding toilet and fancy jewellery department of leading London wholesalers, to call on chemists, hairdressers and stores. Salary, expenses and commission. Give particulars age, experience, territory covered and if car owner, to Sales Manager, 2/35, C. & D. Office.

REPRESENTATIVES required on commission basis in all parts of U.K. for strongly advertised speciality with widest possible appeal. Generous commission. Exceptional opportunity to get in on the ground floor with a new line that is making rapid headway. Write, giving details to 1/960, C. & D. Office.

REPRESENTATIVE to contact retail chemists in the Midlands required by manufacturing chemists of high standing. Good salary and expenses will be paid to the right applicant. Give full details of experience, age and salary expected. 1/962, C. & D. Office.

REPRESENTATIVE required whole of Lincolnshire, Leicestershire, Derbyshire, Nottinghamshire, Northamptonshire. Must have sound chemist connection. 'Chemist Friend' products, nationally advertised, already established on the ground. Remunerative post to right man. Car owner preferred. Give fullest details and previous experience to 2/24, C. & D. Office.

REPRESENTATIVE required whole of Northumberland, Durham, Westmorland, Cumberland. Must have sound chemist connection. 'Chemist Friend' products, nationally advertised, already established on the ground. Remunerative post to right man. Car owner preferred. Give fullest details and previous experience to 2/26, C. & D. Office.

REPRESENTATIVE required for special work; 1 territory; must be car owner and willing to stay at home for long periods. Salary, car allowance expenses. Write in confidence, giving full particulars, to General Manager, Howard-Taylor, 1 Balham High Rd., S.W.12.

REPRESENTATIVE required whole of Yorkshire. Must have sound chemist connection. 'Chemist Friend' products, nationally advertised, already established on the ground. Remunerative post to right man. Car owner preferred. Give full details and previous experience to 2/25, C. & D. Office.

REPRESENTATIVES required for London and whole of U.K. to carry quick selling branded nuns' athletic supporter. Connections among chemists essential. Live men only. Reply to Pett (Textiles), Ltd., 18 Golden Sq., W.1. Telephone Gerrard 1126.

REPRESENTATIVES with good connections required in several parts of the country, including Scotland to sell C.F. products on commission basis. All areas covered and other lines carried. 2/47, C. & D. Office.

REPRESENTATIVES required for the following areas: West London, Hampshire, Dorset, Northumberland, Durham, to call upon doctors, hospitals and chemists in connection with high-ethical pharmaceutical products. Applicants reside on the territory. Apply 2/20, C. & D. Office.

REPRESENTATIVES with established connections chemists required by manufacturers of household commodity (nursery) in daily use. Very liberal commission terms. Car essential. 1/971, C. & D. Office.

SALES ASSISTANT. Manufacturing chemists require sales assistant for their London Office. Previous experience in the bulk chemical sales particularly in overseas markets is an essential qualification. Apply, giving particulars of past experience, age, salary required, etc., 2/50, C. & D. Office.

SECRETARY required by manufacturers and wholesalers of ethical medical products. Responsible position; knowledge of drug trade and export trade advantage. Excellent prospects for the right person. Salary commensurate with ability and experience. Apply in the first instance, to 1/984, C. & D. Office.

SPECIALITY SALESMAN required to handle attractive range of pharmaceutical goods. One experience of calling on the grocery trade preferred. Would be required to travel anywhere in the lands and Northern Counties. Remunerative salary and expenses. Apply with fullest particulars which will be treated in strictest confidence to Messrs. Kempac, Ltd., Bradford Rd., Batley, Yorkshire.

STILL MAN. Experienced man wanted for distillation of essential oils, fractionation, etc. Write giving full details of experience, to Works Manager, Potter & Clarke, Ltd., Fairclough St., London.

TERRITORIES open for representation of speciality importing house most areas British Isles. Applicants invited from car owners well connected with wholesale houses and stores. Must be capable of large figures. Generous terms and every assistance to right men. Apply giving full details and territory covered. 2/31, C. & D. Office.

LIAM R. WARNER & CO., LTD., Power Rd., London, W.4, pharmaceutical and cosmetic manufacturers, require a qualified pharmacist, male or female, for their control laboratory. Analytical and metric experience desirable but not essential. Salary according to qualifications and experience. 5-day week, canteen, pension scheme. **SAS** representatives and agents requiring Christmas novelties and gift lines are invited to communicate, giving particulars of territory. BCM/BON-DURE, W.C.2.

WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large company operating in the Middle East. Will be employed either on development or process work and should be prepared initially to undertake shift work on process plant; should possess B.Sc. degree and preferably have had subsequent industrial experience. Age not over 30. Single men preferred. Earning salary not less than £500-£600 p.a. according to qualifications, together with a generous allowance in local currency, also free furnished bachelor accommodation, free passages out and home; free medical attention; kit allowance; provident fund benefits. Applicants must be of full British parentage and should write stating age, qualifications and experience, to Dept. F.18, 162/462, C. & D. Office.

LOCAL REPRESENTATIVES required to assist in developing existing substantial business in Malaya. Pharmaceutical qualification essential. Young, unmarried men preferred. Write giving full personal details and particulars of education and experience. Personnel Manager, Allen & Hanburys, Ltd., London, E.2.

ANT CHEMISTS urgently required for process plant operations by large company operating in the Middle East. Applicants need not be graduates but should have had a chemical training up to Inter Sc. or National Certificate Standard with experience of shift work in either a gas, coke oven or chemical works. Age not over 30. Salary in sterling between £540 and £600 per annum plus generous allowances in local currency, with free furnished bachelor accommodation, passages out and home, medical attention, also kit allowance and provident fund benefits. Apply stating age, qualifications and experience, etc., to Dept. F.22, 162/461, C. & D. Office.

CLERICAL

OFFICE BOY OR GIRL wanted at once by trade and technical publishers. Must be willing and adaptable and age not over 16½ years. Applications in own handwriting to the Staff Director, Morgan Brothers (Publishers), Limited, 28 Essex St., Strand, London, W.C.2.

SITUATIONS WANTED

- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

ASSISTANT, single, dispenser, salesman. Elderly, accustomed to manage, unqualified status. C/o Mrs. Quinn, 2 Laxey Road, Green Street Green, Barnborough, Kent.

CHEMIST'S ASSISTANT or dispenser; over 51 years of age; London experience; unregistered. Harries, Sion Hill, Clifton, Bristol.

EXPERIENCED ASSISTANT, unqualified, elderly, capable dispenser and counter, requires position with living accommodation. Wales preferred. Apply 14, C. & D. Office.

PART-TIME position required in New Year, between Baker St. and Harrow, by young, unqualified, married lady, experienced in dispensing, display and counter. 2/16, C. & D. Office.

WOMAN PHARMACIST, well experienced, requires work four or five days weekly, wholesale or retail, London area. Please state terms. 2/13, C. & D. Office.

YOUNG WOMAN, Inter. B.Sc., clerical and executive engineering experience, having general knowledge of pharmaceutical chemicals, seeks part-time post as dispenser or clerk in London area. 2/22, C. & D. Office.

WHOLESALE

ADMINISTRATOR-CHEMIST. Extensive experience, good record. Interested works or general management. Considering change in the future. Can wait opportunity. 2/61, C. & D. Office.

CHARGE HAND tablet maker, sugar, choc. and all coatings and all appertaining to manufacture. 35 years' first-class experience. A Goldstone, 18 Shap Cres., Carshalton, Surrey.

EXPERIENCED tablet maker desires permanent post in London. Young. Apply 2/36, C. & D. Office.

EXPORT REPRESENTATIVE with wide knowledge of drug trade, particularly in Europe, seeks new position. Highly recommended by present employers. Multilingual and willing to travel. Reply to 2/54, C. & D. Office.

PHARMACIST manager, with sound retail and wholesale experience, desires progressive appointment. 2/49, C. & D. Office.

SALES MANAGER (Fellow I.S.M.A.) with specialised knowledge and successful sales record in marketing, selling and distribution of cosmetics and proprietary pharmaceutical products through home and export markets. 2/12, C. & D. Office.

WALES and border counties. Top-flight salesman, executive experience, seeks one worth-while representation. Commission preferred. Calling upon chemists, etc. Car owner. 2/38, C. & D. Office.

APPOINTMENTS

A vacancy will shortly occur on the Advertising Staff of

THE CHEMIST AND DRUGGIST

for an assistant with all-round Drug Trade experience. Applicants should be pharmacists and possess sound business instinct, have good knowledge of modern office routine, and be capable of dealing with commercial correspondence. Some knowledge of printing would be an advantage. Applications (by letter only) should state age, experience, qualifications, salary expected, and be addressed to the Staff Director, Morgan Brothers (Publishers), Ltd., 28 Essex St., Strand, London, W.C.2.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for CHASE FARM HOSPITAL, Enfield, Middlesex. J.N.C. (Hosp. Staffs) scale. Salary £370 p.a. inclusive to £450 p.a. Non-resident, unestablished post. Recently qualified pharmacists considered. Application stating age, quals., exper., with copies of up to three recent testimonials, to **MEDICAL DIRECTOR** of Hospital **IMMEDIATELY**. No forms (quoting C.880 CD).

C. W. RADCLIFFE,
Clerk of the County Council.
Middlesex Guildhall,
S.W.1.

KENT COUNTY COUNCIL ASSISTANT PHARMACIST

Applications are invited for the following appointment at the County Pharmacy, County Hall, Maidstone.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) (Male). Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom references may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

County Hall, Maidstone.
October 9, 1947.

W. L. PLATTS,

Clerk of the County Council.

LONDON COUNTY COUNCIL

PART-TIME ASSISTANT PHARMACIST required for duty at Leavesden Hospital, Abbots Langley, Herts. Candidates must be registered Pharmacists. Salary five shillings and sixpence an hour for a maximum of 21 hours a week. Apply to Physician Superintendent. (3364.)

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlesex. (Registered essential). J.N.C. (Hosp. Staffs) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment; subject to medical examination. Application stating age, quals., exper., with copies of up to 3 recent testimonials to **MEDICAL DIRECTOR at Hospital**, IMMEDIATELY. No forms (quote C 292 C D).

C. W. Radcliffe,
Clerk of the County Council.
Middlesex Guildhall, S.W.1.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for REDHILL COUNTY HOSPITAL, Edgware, Middlesex. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical exam. Application stating age, qualifications, experience, with copies of up to three recent testimonials to **MEDICAL DIRECTOR of Hospital** IMMEDIATELY. No forms (quoting C. 924 CD).

C. W. RADCLIFFE,
Clerk of the County Council.
Middlesex Guildhall,
S.W.1.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACISTS required at EPSOM COUNTY HOSPITAL, Dorking Rd., Epsom. KINGSTON COUNTY HOSPITAL, Wolverton Ave., Kingston-on-Thames. ST. HELIER COUNTY HOSPITAL, Carshalton. Commencing salary on grade £370 x £15-£430 x £20-£450 p.a. inclusive. Applications in writing, stating age, qualifications and experience with copies of not more than three recent testimonials should be sent to the Medical Superintendent of the Hospital.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for HILLINGDON COUNTY HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical exam. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to the **MEDICAL DIRECTOR of Hospital**, by 8th November. No forms, (quoting C 951 CD). (Male candidates to state position with regard to military service.)

C. W. RADCLIFFE,
Clerk of the County Council.
Middlesex Guildhall,
S.W.1.

ROYAL BERKSHIRE HOSPITAL READING

(461 Beds)

Applications are invited for the appointment of **ASSISTANT PHARMACIST**. Salary, according to experience, within J.N.C. scale, i.e. £370 to £450 per annum. Federated superannuation scheme is in force. Applications, stating age, qualifications and experience and accompanied by copies of not more than three testimonials, should be sent to the undersigned as soon as possible.

H. E. RYAN,
House Governor.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

COMPLETE SET Chemists' shop fittings. So mahogany. Excellent opportunity to fit up first class chemists' shop. 2/65, C. & D. Office.
FOR SALE, 48,000 Multi-vitamin capsules at 50 1,000, by good maker. Also blue enamelled aluminium boxes, hinged lids, 24 gross. Part or whole Franks (Birmingham), Ltd., 394 Lodge Rd., Birmingham, 18.

PASCALL NO. 1 pin disc grinding mill. Most suitable for sugar grinding, etc. Splendid condition. Complete with hopper. Surplus to our requirements 2/37, C. & D. Office.

SEAMLESS TINS, 1 or 2 oz. capacity. Lever 1 30/- per gross carriage forward. Packed in 10 gross cartons. Parekem Products, 41 Fountain St., Manchester. Central 3031.

WHITE TECHNICAL OIL, Pool 30 in 44-gall. drums 8/6 gall. 3 cwt. snow white spermaceti. Offer Willsons, Manufacturing Chemists, High Rd., Balldoncaster.

WILKINSON 12-punch rotary tablet machine sale, belt driven. What offers? Can be seen The Harrogate Tablet Co., Ltd., Golden Works, Bridgend, Glam.

1 ALBRO vacuum filling machine, suitable for liquid filling, especially designed for glycerine, i. paraf., similar heavy liquids. Complete with interchangeable nozzles, motor, 1 stainless steel gallon vessel, water jacketed. 1 cream fill machine, hand operated, with adjustable quantity ejection. All in perfect condition. Offers: Phillips 1492.

8-HYDROXYQUINOLINE sulphate. Up to 400 at 22/- lb., ex works. Sample on request. 1/9 C. & D. Office.

10 CARTONS triple refined British spermaceti w 1 x 128 drums genuine palma rosa. 4 cwt. ed powdered gelatine. 2/30, C. & D. Office.

50 GROSS 1 oz. squat jars, 30/- per gross. 2/ C. & D. Office.

100 GROSS ½-oz. flat oval U.G.B. perfume bot without caps at 30/- per gross. 2/43, C. & Office.

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APPLY IN FIRST INSTANCE TO:
1/929 C. & D. OFFICE

AGENCIES

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WELL-CONNECTED manufacturers' agent with Manchester office and staff would be pleased to hear from manufacturers who would like to be represented. 1/956, C. & D. Office.

AGENTS required for the distribution of well-known pharmaceutical products. Good prospects. London area. Apply to 1/966, C. & D. Office.

WISH firm of manufacturing chemists and distributors with spacious centrally situated showrooms and offices in Dublin are anxious to secure distribution of well-known ethical or toilet preparations. Good connection with the wholesale and retail trade. Opportunity for investment if desired. Reply in strictest confidence. 2/33, C. & D. Office.

MANUFACTURERS of proven pharmaceutical and toilet preparations require agents calling on chemists and hairdressers North Wales, Midlands, North and north-east England. Write in first instance, giving details of lines already carried, territory covered, etc. 2/58, C. & D. Office.

ODMILL Chemical Co., Ltd., Liverpool 3, manufacturers of the amazing new nationally advertised insecticide "Rod-Antu" (P.A.T.A. line) are open to appoint agents in various parts of the British Isles. Generous commission terms. State area covered.

AGENCIES WANTED

1/6 for 36 words or less, 3d. for every additional word

AGENCIES representation commissions required for France, preferably Paris, where ex-officer resides. Speaks language, knows people, minds his own business. Thirty years' trade experience. Bank reference and guarantee supplied. Apply 2/18, C. & D. Office.

PHARMACIST (retired) with offices in West London suburb requires agency (pharmaceutical or optical) to fill time gaps between optical patients. Suit firm desiring London address with qualified, economic, direction of their interests. 2/13, C. & D. Office.

BUSINESS OPPORTUNITIES

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A REPUTABLE firm of wholesale manufacturers is prepared to accept distribution of pharmaceutical, toilet and sundries preparations for manufacturing firms. W. M. Gardner & Co., Ltd., 68 Kilburn Park Rd., London, N.W.6.

COMPANY marketing well-known toilet preparation desires to sell, as proprietors are going abroad. Board of Trade quota £3,600 per annum. Home market sales January-September 1947 £6,287, export £3,000. Price £5,000. Principals only write to I.G. Fox & Co., Solicitors, Royal Ave., Belfast.

FILLING and packing. Inquiries invited from manufacturers requiring this service. 2/21, C. & D. Office.

LONDON. Manufacturing and wholesale chemist, making substantial and increasing net profits, requires co-director with £2,000 for further expansion. Commercial Development Co., 199 London Rd., Sevenoaks, Kent.

MODERN FACTORY with all latest mass production facilities for mixing, pressing and filling powders or liquids available for large or small contracts. Packing and despatch direct to customers undertaken. Prompt service. No delays. 2/44, C. & D. Office.

SMALL FACTORY offers filling and packing facilities, also despatching if required. Experienced in medical and toilet preparations. Write 2/32, C. & D. Office.

BUSINESSES FOR DISPOSAL

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DRUG STORES. High-class, main road, near Croydon. Present hands 20 years. Sole cause selling, illness. Fine shop, house. Fullwoods, 188 High St., Clapham, London, S.W. Telephone Macaulay 2620. **FOR SALE**, owing to illness. The old established business of a wholesale and retail chemists' and hairdressers' supplier. Stock, fixtures, fittings and goodwill all at £5,500. Genuine inquiries only. Full particulars of Harold Thornton, F.A.I., 5 Yorke St., Manchester Rd., Burnley (Tel. 4458).

LONDON. Old established group of eight businesses for disposal offering scope for increase. Wholesale membership. Retail turnover exceeds £800 per week. Substantial panels. Good stocks and fixtures. Three freehold properties available. Total purchase price required approximately £42,000 which represents only about £14,000 in respect of the goodwill. Net profits at least £5,000 per annum. Apply with banker's reference. 2/17, C. & D. Office.

SOUTH COAST PORT. Old-established pharmacy for sale, with sub-Post Office and stationery business, if desired. Good living accommodation. Total purchase price, £7,000, incl. freehold and lease of P.O., lock-up shop adjoining. Apply 2/51, C. & D. Office.

WIGAN. Old-established pharmacy in main street of Wigan for disposal; neglected, but has very good specialities with splendid opportunities for the future; low overheads; takings £1,200 per annum; can be increased to double by enterprising purchaser, with good profits. £250, goodwill and stock and fixtures at valuation. No agents need reply to this advertisement. Write 1/986, C. & D. Office.



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FOR SALE

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SMALL surplus stock of rubber bands in all sizes, made from high quality rubber offered for packing purposes at lowest prices. Feather Supplies, Ltd. (Rubber Dept.), 7 Cambridge Ave., Kilburn, N.W.6.

WANTED

8/6 for 36 words or less, 3d. for every additional word

A BIG PRICE offered for home cines, cameras, or projectors. Bell-Howell, Kodak, G.B., etc. Also Leica, Contax and other precision cameras, enlargers, exposure meters, etc. Prompt cash. Wallace Heaton, Ltd., 126-7 New Bond St., London, W.1.

ADVERTISER requires large or small quantities of Saccharine or sweetening tablets for immediate delivery. 2/23, C. & D. Office.

AUTOMATIC cream filler wanted at once; big price paid. Shavex Co., Bavaria Rd., Holloway, N.15.

BOTTLES, 2-oz. ribbed oval, required immediately. Samples, quotations and best delivery date to 2/7, C. & D. Office.

BOTTLES. 26-oz. and 13-oz. wine or champagne bottles required. 1/853, C. & D. Office.

BOTTLES, bottles. We will buy all your surplus stocks, spot cash. Any shape or size. Large or small quantities. Call or write with details. Hendstock & Co., 6 Hamilton Sq., Birkenhead.

BOTTLES or jars, 5-6-8-oz., wide mouth, with caps, suitable for creams, regular monthly lots of 5,000 required. Offers with samples to Henshaw & Co., 97 Clearmount Rd., Weymouth.

DEODORISED Chinese tea seed oil or apricot nut oil urgently required for north-east canteen. Could take 6 x 48 gallon drums. Write or wire 2/5, C. & D. Office.

GLYCERINE wanted, any quantities taken of B. quality. Cash by return. State quantity available and price required to 157/296, C. & D. Office.

LIQUORICE and menthol pellets required in bulk 1/640, C. & D. Office.

PEPPERMINT OIL, B.P. and glycerine required any quantities. Details to 2/29, C. & D. Office.

SACCHARIN powder. 550 or standard strength tablets, bulk or packed. Any quantity for cash. A. Nos. 2, 3, 5 and 7 tablet bottles. 2/48, C. & D. Office.

STEARIC ACID, triple pressed required in large quantities. 147/850, C. & D. Office.

WANTED urgently. Stearic acid, all grades, any quantity. Samples and quotations to Harrogate Dietetic Laboratories, Ltd., Cavendish Works, North Parade, Burnt Oak, Middlesex.

WANTED. Orders for $\frac{3}{4}$ in. plain mouth flat bottom glass tubes. Dunford, Manufacturer, 107 Westgate Wakefield, Yorkshire. Tel. 4054.

WANTED urgently; 10 gross each stoppered at C.M. 20 oz bottles. Must be amber, win. shap. Good price paid. Reply 1/435, C. & D. Office.

WANTED. Investor to finance cosmetic manufacturing. Licence held export and home trade. Vi partnership in same. A. C. Parish, 28 Museum St., London, W.C.1.

PREMISES FOR SALE

SLOUGH. Modern freehold ground floor factory and two-storey block of offices with main road frontage to be sold. Floor area 17,000 square feet. Central heating and all services. Vacant possession on completion. Further particulars of Leopold Farmer & Sons, Factory Agents, 46 Gresham Street, London, E.C.2.



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